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CATALOGUE OF GEOLOGICAL
MAPS OF SOUTH AMERICA

HENRY B. SULLIVAN



AMERICAN GEOGRAPHICAL SOCIETY

RESEARCH SERIES NO. 9

HARVARD UNIVERSITY



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**GEOLOGICAL MAPS OF
SOUTH AMERICA**

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AMERICAN GEOGRAPHICAL SOCIETY
RESEARCH SERIES NO. 9
W. L. G. JOERG, *Editor*

A CATALOGUE OF GEOLOGICAL MAPS OF SOUTH AMERICA

BY

HENRY B. SULLIVAN

Section of Foreign Mineral Reserves, U. S. Geological Survey

With an Index Map



AMERICAN GEOGRAPHICAL SOCIETY
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EXPLANATORY NOTE

This publication was originally prepared as a catalogue of the geological maps of South America contained in the libraries of the U. S. Geological Survey, the Pan-American Union, the Army War College, and the Library of Congress, all in Washington, D. C. To the original list the American Geographical Society has added the maps to be found in its library and map collection in New York, and it has expanded the list of maps not seen by including the geological maps referred to in the works cited below as "Suess-de Margerie" and "AGS list." The list originally counted 105 maps seen and 26 maps not seen; it now numbers 170 maps seen and 39 maps not seen.

The catalogue consists of an index map (Pl. I), on which the outlines of the maps seen have been plotted and numbered consecutively from north to south, and a brief description of each map, arranged and numbered to correspond with the numbers on the index map, giving the full title of the map, the author and title of the article or book in which the map appears, the periodical in which—if in an article—it is to be found, the date of publication, the location of the area covered, the size and scale of the map, and the number of geological formations mapped. If the outline of a given map can not be recognized clearly on the index map, its location can always be determined by the statement of its limiting geographical co-ordinates in the text.

The appendix is a description of maps concerning which information has been gathered from the works cited below but which have not been seen. The entries are numbered to show their correct position if inserted in the catalogue proper.

Only maps showing areal geology are listed. Structural and mineral resources maps are not included.

The index lists the maps by authors.

iv GEOLOGICAL MAPS OF SOUTH AMERICA

The abbreviations at the head of each entry in the catalogue proper indicate the library in which the maps are to be found, as follows:

USGS = U. S. Geological Survey.
PAU = Pan-American Union.
AWC = Army War College.
LC = Library of Congress.
AGS = American Geographical Society.

The abbreviations in the appendix under the heading "Reference" relate to the publications in which references were found to the maps listed but not seen. These publications, and the abbreviations used, are as follows:

Marcou = Jules Marcou and J. B. Marcou: *Mapoteca Geologica Americana*: A catalogue of geological maps of America (North and South), 1752-1881, in geographic and chronologic order, *U. S. Geol. Survey Bull. No. 7*, Washington, D. C., 1884.

Suess-de Margerie = Eduard Suess: *La face de la terre* (*Das Antlitz der Erde*), traduit et annoté sous la direction de Emmanuel de Margerie, 3 vols. and index in 7 vols., Paris, 1897-1918. [The sections dealing with South America are mainly in Vol. 1, pp. 675-723; Vol. 2, pp. 222-227, 513-518, 787-794, 818-836; Vol. 3, pp. 1264 and 1293-1344. The French translation has been consulted in preference to the German original and the English translation, because of the large number of additional references.]

Branner = J. C. Branner: *Outlines of the geology of Brazil* to accompany the geologic map of Brazil, *Bull. Geol. Soc. of America*, Vol. 30, pp. 189-337, 1919.

AGS list = List of maps of Hispanic America: I, Maps contained in periodical publications, American Geographical Society, New York, 1921. [Manuscript typewritten list. (Bound duplicates can be supplied to order.)]

The catalogue does not lay claim to be complete. Space is provided on the alternate blank pages for additions by the user.

CATALOGUE PROPER
(MAPS SEEN)

2 GEOLOGICAL MAPS OF SOUTH AMERICA

1 USGS, AGS

TITLE:

Geognostische Karte der Sierra Nevada de Santa Marta,
Staat Magdalena, Colombia.

PUBLISHED IN:

Wilhelm Sievers: Erläuterungen zur geognostischen Karte
der Sierra Nevada de Santa Marta, *Zeitschr. Gesell. für
Erdkunde zu Berlin*, Vol. 23, 1888, p. 442, map opp. p. 442.

LOCATION OF AREA COVERED:

1. State of Magdalena, Colombia.
2. Lat. $9^{\circ} 30'$ to $11^{\circ} 30' N$.
Long. 72° to $74^{\circ} 30' W$.

SCALE: 1 : 500,000.

SIZE: 18 by 21 inches.

NUMBER OF FORMATIONS MAPPED: 14.

2 USGS, AGS

TITLE:

Maps and sections of the northern part of South America to
illustrate Mr. G. P. Wall's paper on the geology of Vene-
zuela and Trinidad.

PUBLISHED IN:

G. P. Wall: On the geology of a part of Venezuela and Trini-
dad, *Quart. Journ. Geol. Soc.*, Vol. 16, 1860, pp. 460-470,
map on Pl. 21 opp. p. 470. London.

LOCATION OF AREA COVERED:

1. Northern part of Venezuela.
2. Lat. 8° to $11^{\circ} N$.
Long. $60^{\circ} 30'$ to $69^{\circ} W$.

SCALE: [1 : 3,750,000].

SIZE: 4 by 11 inches.

NUMBER OF FORMATIONS MAPPED: 8.

4 GEOLOGICAL MAPS OF SOUTH AMERICA

3 AGS

TITLE:

Dr. W. Sievers' geognostische Karte der südlichen Hälfte der Venezolanischen Cordillere zur Veranschaulichung des Schauplatzes des Erdbebens vom 28. April 1894, gezeichnet] von L. Friederichsen.

PUBLISHED IN:

Wilhelm Sievers: Das Erdbeben in Venezuela am 28. April 1894, *Mitt. Geogr. Gesell. Hamburg*, 1891-92, pp. 237-244, inset map on Pl. 6.

LOCATION OF AREA COVERED:

1. Northwestern Venezuela.
2. Lat. $7^{\circ} 15'$ to $8^{\circ} 38' N$.
Long. $70^{\circ} 20'$ to $72^{\circ} 50' W$.

SCALE: 1 : 1,000,000.

SIZE: $6\frac{1}{4}$ by $10\frac{3}{4}$ inches.

NUMBER OF FORMATIONS MAPPED: 6.

4 AGS

TITLE:

Dr. W. Sievers' geognostische Karte der Venezolanischen Cordillere . . . , bearbeitet u. gezeichnet von L. Friederichsen.

PUBLISHED IN:

W. Sievers: Die Cordillere von Mérida, nebst Bemerkungen über das Karibische Gebirge, *Geogr. Abhandl. herausg. von Albrecht Penck*, Vol. 3, No. 1, Vienna, 1888, map at end.

LOCATION OF AREA COVERED:

1. Northwestern Venezuela.
2. Lat. $7^{\circ} 15'$ to $11^{\circ} N$.
Long. $66^{\circ} 45'$ to $72^{\circ} 45' W$.

SCALE: 1 : 1,000,000.

SIZE: 19 by $10\frac{3}{4}$ inches.

NUMBER OF FORMATIONS MAPPED: 11.

6 GEOLOGICAL MAPS OF SOUTH AMERICA

5 AGS

TITLE:

Geologic map of the region about Caicara, Venezuela, by
T. A. Bendrat.

PUBLISHED IN:

T. A. Bendrat: Geologic and petrographic notes on the
region about Caicara, Venezuela, *Journ. of Geol.*, Vol. 19,
1911, pp. 238-248, map on p. 240. Chicago.

LOCATION OF AREA COVERED:

1. Central Venezuela.
2. Lat. $7^{\circ} 12'$ to $7^{\circ} 44'$ N.
Long. 66° to $66^{\circ} 25'$ W.

SCALE: [1 : 475,000]. Scale incorrectly given as 1 : 250,000.

SIZE: $5\frac{1}{8}$ by 4 inches.

NUMBER OF FORMATIONS MAPPED: 7.

6 USGS

TITLE:

J. B. Harrison: Geological map of parts of the Waini, Barama,
and Barima Rivers.

PUBLISHED BY:

[Department of Lands and Mines, Georgetown, British
Guiana] (?), 1901.

LOCATION OF AREA COVERED:

1. Northwestern British Guiana.
2. Lat. $7^{\circ} 20'$ to 8° N.
Long. $59^{\circ} 10'$ to $60^{\circ} 20'$ W.

SCALE: About 4 miles to 1 inch (approx. 1 : 250,000).

SIZE: 12 by 19 inches.

NUMBER OF FORMATIONS MAPPED: 7.

8 GEOLOGICAL MAPS OF SOUTH AMERICA

7 USGS, AGS

TITLE:

Nördliches Venezuela: I. Übersicht der geologischen und tektonischen Verhältnisse.

PUBLISHED IN:

Wilhelm Sievers: Karten zur physikalischen Geographie von Venezuela, *Petermanns Mitt.*, Vol. 42, 1896, pp. 125-129, 149-155, 197-201, map on Pl. 10 opp. p. 148. Gotha.

LOCATION OF AREA COVERED:

1. Northern half of Venezuela.

2. Lat. 7° to $12^{\circ} 30' N$.

Long. 60° to $73^{\circ} 20' W$.

SCALE: 1 : 3,000,000.

SIZE: 8 by 20 inches.

NUMBER OF FORMATIONS MAPPED: 14.

8 USGS

TITLE:

J. B. Harrison and C. W. Anderson: Map of lower Essequibo and Cuyuni Rivers in the colony of British Guiana showing the geological formations along the courses of these rivers.

PUBLISHED BY:

[Department of Lands and Mines] (?), Georgetown, British Guiana, 1905.

LOCATION OF AREA COVERED:

1. Northwestern British Guiana.

2. Lat. $6^{\circ} 20'$ to $7^{\circ} N$.

Long. $58^{\circ} 25'$ to $60^{\circ} 20' W$.

SCALE: About 2 miles to 1 inch (approx. 1 : 125,000).

SIZE: 23 by 68 inches (in two sheets).

NUMBER OF FORMATIONS MAPPED: 6.

9 USGS

TITLE:

Plan der Umgegend von El Quarzo, der Salzquellen und der Goldseifenwercke.

PUBLISHED IN:

Carl Degenhardt: Ueber die Salzquellen des nördlichen Theiles der Provinz Antioquia und die Gebirgsformationen der Umgebung von Medellin im Freistaate von Neu-Granada, *Archiv für Mineralogie, Geognosie, Bergbau und Hüttenkunde*, Vol. 12, 1839, pp. 1-13, map on Pl. 1. Berlin.

LOCATION OF AREA COVERED:

1. Southern part of Department of Antioquia, Colombia.
2. Lat. 6° to $6^{\circ} 5' N$.
Long. $75^{\circ} 39'$ to $75^{\circ} 42' W$.

SCALE: 1 : 29,600.

SIZE: $7\frac{1}{2}$ by 9 inches.

NUMBER OF FORMATIONS MAPPED: 5.

10 USGS, AGS

TITLE:

J. B. Harrison and H. I. Perkins: Geological map of parts of the Mazaruni and Puruni Rivers.

PUBLISHED BY:

[Department of Lands and Mines, Georgetown, British Guiana] (?), 1900.

LOCATION OF AREA COVERED:

1. Northwestern British Guiana.
2. Lat. $5^{\circ} 40'$ to $6^{\circ} 30' N$.
Long. $58^{\circ} 35'$ to $60^{\circ} 25' W$.

SCALE: 4 miles to 1 inch (1 : 253,440).

SIZE: 14 by 32 inches.

NUMBER OF FORMATIONS MAPPED: 6.

11

USGS

TITLE:

Croquis geológico con perfiles de las haciendas San Jorge y Llano de Animas.

PUBLISHED IN:

R. Scheibe: Informe sobre los yacimientos de carbón en las haciendas de San Jorge y Llano de Animas, en el municipio de Zipaquirá, *Documentos de la Comisión Científica de Colombia*, 1917-1918, pp. 4-17. Bogotá.

LOCATION OF AREA COVERED:

1. Area 4 by 7 kilometers, three kilometers south and west of Zipaquirá, just northwest of Bogotá, Colombia.
2. Lat. $5^{\circ} 5' N$.
Long. $74^{\circ} 8' W$.

SCALE: 1 : 25,000.

SIZE: 14 by 15 inches.

NUMBER OF FORMATIONS MAPPED: 13.

12

USGS

TITLE:

J. B. Harrison: Map of the northern portion of British Guiana showing the geology of the courses of the principal river and auriferous areas.

PUBLISHED BY:

Department of Lands and Mines, Georgetown, British Guiana, 1906.

LOCATION OF AREA COVERED:

1. Northern portion of British Guiana.
2. Lat. $4^{\circ} 50'$ to $7^{\circ} 55' N$.
Long. $56^{\circ} 50'$ to $61^{\circ} 15' W$.

SCALE: 1 : 633,600.

SIZE: 27 by 30 inches.

NUMBER OF FORMATIONS MAPPED: 9.

14 GEOLOGICAL MAPS OF SOUTH AMERICA

13 USGS

TITLE:

J. B. Harrison: Map of part of the colony of British Guiana with portions of the Essequibo, Potaro, Konawaruk, and Demerara Rivers (Gold District No. 2).

PUBLISHED BY:

Government Land Department, Demerara [i.e. Georgetown], British Guiana, 1899.

LOCATION OF AREA COVERED:

1. Central portion of northern British Guiana.
2. Lat. $4^{\circ} 40'$ to $6^{\circ} 38'$ N.
Long. $58^{\circ} 12'$ to $59^{\circ} 31'$ W.

SCALE: About 4 miles to 1 inch (approx. 1 : 250,000).

SIZE: 27 by 35 inches.

NUMBER OF FORMATIONS MAPPED: 8.

14 AGS

TITLE:

[Geologische Karte der] Umgegend von Bogotá.

PUBLISHED IN:

Alfred Hettner: Die Kordillere von Bogotá: Ergebnisse von Reisen und Studien, *Ergänzungsheft No. 104 zu Petermanns Mitt.*, map on p. 33. Gotha, 1892.

LOCATION OF AREA COVERED:

1. Environs of Bogotá, Colombia.
2. Lat. $4^{\circ} 40'$ to $4^{\circ} 28'$ N.
Long. $0^{\circ} 8'$ E. to $0^{\circ} 8'$ W. (Bogotá).
 $74^{\circ} 12'$ W. to $74^{\circ} 28'$ W. (Greenwich).

SCALE: [About 1 : 200,000].

SIZE: $3\frac{3}{8}$ by $2\frac{3}{8}$ inches.

NUMBER OF FORMATIONS MAPPED: 4.

11/32

15

AGS

TITLE:

Eerste proeve eener geognostische overzichtskaart van Suriname.

PUBLISHED IN:

K. Martin: Aanteekeningen bij eene geognostische overzichtskaart van Suriname, *Tijdschr. Kon. Nederl. Aardrijksk. Genoot.*, Ser. 2, Vol. 5, 1888, section entitled "Verslagen en Aardrijkskundige Mededeelingen," pp. 444-453, map 8. Amsterdam.

LOCATION OF AREA COVERED:

1. Northern Dutch Guiana.
2. Lat. $4^{\circ} 20'$ to $6^{\circ} 20'$ N.
Long. $53^{\circ} 50'$ to $57^{\circ} 30'$ W.

SCALE: 1 : 1,600,000.

SIZE: $7\frac{1}{4}$ by $10\frac{1}{4}$ inches.

NUMBER OF FORMATIONS MAPPED: 8.

16

AGS

TITLE:

Versuch einer geognostischen Karte von einem Theile des Surinam.

PUBLISHED IN:

K. Martin: Aanteekeningen bij eene geognostische overzichtskaart van Suriname, *Tijdschr. Kon. Nederl. Aardrijksk. Genoot.*, Ser. 2, Vol. 5, 1888, section entitled "Verslagen en Aardrijkskundige Mededeelingen," pp. 444-453, (map 9). Amsterdam.

LOCATION OF AREA COVERED:

1. Lower Suriname River, Dutch Guiana.
2. Lat. $4^{\circ} 21'$ to $6^{\circ} 10'$ N.
Long. $54^{\circ} 44'$ to $55^{\circ} 41'$ W.

SCALE: 1 : 400,000.

SIZE: $10\frac{1}{4}$ by $19\frac{1}{4}$ inches.

NUMBER OF FORMATIONS MAPPED: 5.

18 GEOLOGICAL MAPS OF SOUTH AMERICA

17 USGS, AGS

TITLE:

Die Kordillere von Bogotá: I, Geologische Übersicht.

PUBLISHED IN:

Alfred Hettner: Die Kordillere von Bogotá, *Ergänzungsheft*
No. 104 zu Petermanns Mitt., map at end. Gotha, 1892.

LOCATION OF AREA COVERED:

1. North-central Colombia.
2. Lat. 4° to 8° N.
Long. $2^{\circ} 20'$ E. to 1° W. (Bogotá).
 72° to $75^{\circ} 20'$ W. (Greenwich).

SCALE: 1 : 1,600,000.

SIZE: 9 by 12 inches.

NUMBER OF FORMATIONS MAPPED: 12.

18 PAU

TITLE:

Tolima.

PUBLISHED IN:

J. C. F. Randolph: Informes sobre las minas de metales
preciosos en el Departamento del Tolima. Ministerio de
Fomento, República de Colombia, Bogotá, 1889.

LOCATION OF AREA COVERED:

1. Department of Tolima, Colombia.
2. Lat. $1^{\circ} 38'$ to $5^{\circ} 45'$ N.
Long. $74^{\circ} 30'$ to $76^{\circ} 30'$ W.

SCALE: About 20 miles to 1 inch (approx. 1 : 1,250,000).

SIZE: 7 by 14 inches.

NUMBER OF FORMATIONS MAPPED: 4.

1. 4 3 2

TITLE:

Kaart van Suriname.

PUBLISHED IN:

E. Middelberg: Geologische en technische aantekeningen over de goudindustrie in Suriname, Amsterdam, 1908, map at end.

LOCATION OF AREA COVERED:

All of Dutch Guiana.

SCALE: 1 : 1,000,000.

SIZE: 18 by 21 inches.

NUMBER OF FORMATIONS MAPPED: 4.

TITLE:

F. J. Vergara y Velasco: Colombia geológica.

PUBLISHED IN:

F. J. Vergara y Velasco: Atlas completo de geografía Colombiana, Bogotá, 1906, map on Pl. 3.

LOCATION OF AREA COVERED:

1. Coastal and Andean Colombia.
2. Lat. $0^{\circ} 30'$ to $11^{\circ} 30'$ N.
Long. $71^{\circ} 36'$ to $78^{\circ} 55'$ W.

SCALE: [1 : 5,000,000].

SIZE: $6\frac{3}{4}$ by $9\frac{3}{4}$ inches.

NUMBER OF FORMATIONS MAPPED: 6.

21

AGS

TITLE:

Map of British Guiana . . . revised and corrected to date from the records of the Department by L. S. Hohenkerk, Government Surveyor, . . . ; the geological information has been compiled . . . from observations made by J. B. Harrison . . . , H. I. Perkins . . . , C. W. Anderson . . . , and other officers . . . , and from the geological maps and reports by C. B. Brown . . . and J. G. Sawkins. . . , 1867-1873, and the travels of Sir Robert H. Schomburgk . . . , 1835-1844.

PUBLISHED by:

Department of Lands and Mines, Georgetown, British Guiana, 1913.

LOCATION OF AREA COVERED:

All of British Guiana.

SCALE: 10 miles to 1 inch (1 : 633,600).

SIZE: 59 by 35 inches.

NUMBER OF FORMATIONS MAPPED: 9.

22

AGS

✓ TITLE:

Alfred Jahn: Mapa geológico de Venezuela según sus propios observaciones, las de Humboldt, Karsten, Wall, Sievers, Koch-Grünberg, Bauer, y las trabajos de la Caribbean Petroleum Company, 1921.

PUBLISHED IN:

Alfred Jahn: Esbozo de las formaciones geológicas de Venezuela, Caracas, 1921.

LOCATION OF AREA COVERED:

All of Venezuela.

SCALE: 1 : 2,000,000.

SIZE: 31 by 24¾ inches.

NUMBER OF FORMATIONS MAPPED: 9.

24 GEOLOGICAL MAPS OF SOUTH AMERICA

23 AGS

TITLE:

Sketch map of the geology of British Guiana.

PUBLISHED IN:

J. G. Sawkins: Geological observations on British Guiana,
Quart. Journ. Geol. Soc., Vol. 27, 1871, pp. 419-434, map
on p. 420. London.

LOCATION OF AREA COVERED:

All of British Guiana.

SCALE: [1 : 6,600,000].

SIZE: 5½ by 4 inches.

NUMBER OF FORMATIONS MAPPED: 7.

24 AWC

TITLE:

Julio Ospina: Carta geológica sintética de Colombia.

PUBLISHED BY:

?

LOCATION OF AREA COVERED:

Lat. 14° N. to 6° S.

Long. 8° E. to 6° W. (Bogotá).

66° 20' to 80° 20' W. (Greenwich).

SCALE: [1 : 5,500,000].

SIZE: 9 by 20 inches.

NUMBER OF FORMATIONS MAPPED: 6.

25

USGS

TITLE:

Sketch map of vicinity of Monte Alegre and Ereré.

PUBLISHED IN:

C. F. Hartt: The Ereré-Monte Alegre district and the table-topped hills, *Bull. Buffalo Soc. of Nat. Sci.*, Vol. 1, 1874, pp. 201-235, map on p. 201.

LOCATION OF AREA COVERED:

1. North-central Brazil.
2. Lat. $1^{\circ} 35'$ to 2° S.
Long. $53^{\circ} 53'$ to $54^{\circ} 26'$ W.

SCALE: About 9 miles to 1 inch (approx. 1 : 570,000).

SIZE: 3 by 4 inches.

NUMBER OF FORMATIONS MAPPED: 2.

26

AGS

TITLE:

Carta geognóstica de la Provincia del Azuay.

PUBLISHED IN:

Teodoro Wolf: Viajes científicos por la República del Ecuador, verificados y publicados por orden del Supremo Gobierno de la misma república: II, Relación de un viaje geognóstico por la Provincia del Azuay, Guayaquil, 1879, map at end.

LOCATION OF AREA COVERED:

1. Southwestern Ecuador.
2. Lat. $2^{\circ} 15'$ to $3^{\circ} 35'$ S.
Long. $80^{\circ} 58'$ to $82^{\circ} 10'$ W. (Paris).
 $78^{\circ} 38'$ to $79^{\circ} 50'$ W. (Greenwich).

SCALE: [1 : 875,000].

SIZE: $6\frac{3}{4}$ by 6 inches.

NUMBER OF FORMATIONS MAPPED: 7.

1883 - 1884 (1884)

27

AGS

TITLE:

Map of Fernando de Noronha.

PUBLISHED IN:

J. C. Branner: Geology of Fernando de Noronha: Part I, *Amer. Journ. of Sci.*, Series 3, Vol. 37, 1889, pp. 145-161, map on Pl. 5. New Haven.

LOCATION OF AREA COVERED:

1. Island off the eastern coast of Brazil.
2. Lat. $3^{\circ} 48'$ to $3^{\circ} 52'$ S.
 Long. $12^{\circ} 54'$ to $12^{\circ} 48'$ E. (Rio de Janeiro), [Thus incorrectly on original instead of:]
 $10^{\circ} 48'$ to $10^{\circ} 42'$ E. (Rio de Janeiro).
 $32^{\circ} 22'$ to $32^{\circ} 28'$ W. (Greenwich).

SCALE: [1 : 51,000].

SIZE: $5\frac{1}{8}$ by $7\frac{1}{8}$ inches.

NUMBER OF FORMATIONS MAPPED: 1.

28

USGS, AGS

TITLE:

Ilha Fernando de Noronha, por John Casper Branner, 1876.

PUBLISHED IN:

J. C. Branner: Outlines of the geology of Brazil to accompany the geologic map of Brazil, *Bull. Geol. Soc. of America*, Vol. 30, 1919, pp. 189-338, inset on main map, opp. 189.

LOCATION OF AREA COVERED:

1. Island off the eastern coast of Brazil.
2. Lat. $3^{\circ} 48'$ to $3^{\circ} 52'$ S.
 Long. $30^{\circ} 18'$ to $30^{\circ} 23'$ W. [instead of:]
 $32^{\circ} 22'$ to $32^{\circ} 28'$ W.

SCALE: [1 : 60,000].

SIZE: $4\frac{3}{4}$ by 6 inches.

NUMBER OF FORMATIONS MAPPED: 2.

L.B.,

L.B.,

30 GEOLOGICAL MAPS OF SOUTH AMERICA

29 AGS

TITLE:

Corte geológico del norte de la Provincia de Tumbes por la Comisión Geológica.

PUBLISHED IN:

V. F. Marsters: Informe preliminar sobre la zona petrolífera del norte del Perú, *Bol. del Cuerpo de Ingenieros de Minas del Perú No. 50*, Lima, 1907, map opp. p. 28.

LOCATION OF AREA COVERED:

1. Northwestern Peru.
2. Lat. $3^{\circ} 33'$ to $3^{\circ} 55'$ S.
Long. $80^{\circ} 14'$ to $80^{\circ} 38'$ W.

SCALE: [1 : 300,000].

SIZE: 8 by 9 inches.

NUMBER OF FORMATIONS MAPPED: 8.

30 PAU, AGS

TITLE:

- A. Formations géologiques de l' Ecuador.
- B. Geological formations of Ecuador.

PUBLISHED IN:

- A. Elisée Reclus: Nouvelle géographie universelle, Vol. 18: Amérique du Sud: Les régions andines, Paris, 1893, map on p. 427. (AGS)
- B. Elisée Reclus: The earth and its inhabitants: South America, edited by A. H. Keane, Vol. 1, New York, 1894, map on p. 234. (PAU)

LOCATION OF AREA COVERED:

1. The Andes and coast of Ecuador.
2. Lat. 1° N. to 4° S.
Long. $77^{\circ} 40'$ W. to coast.

SCALE: 1 : 4,000,000.

SIZE: 4 by 5 inches.

NUMBER OF FORMATIONS MAPPED: 7.

✓ 31

LC, AGS

TITLE:

Carta geológica del Ecuador.

PUBLISHED IN:

Teodoro Wolf: Geografía y geología del Ecuador, Leipzig, 1892.

LOCATION OF AREA COVERED:

1. Mountain section of Ecuador to coast.
2. Lat. $1^{\circ} 30'$ N. to $4^{\circ} 40'$ S.
Long. $77^{\circ} 40'$ to $81^{\circ} 30'$ W.

SCALE: 1 : 2,000,000.

SIZE: 8 by 14 inches.

NUMBER OF FORMATIONS MAPPED: 10.

✓ 32

AGS

TITLE:

Carta geognóstica de la Provincia de Loja.

PUBLISHED IN:

Teodoro Wolf: Viajes científicos por la República del Ecuador, verificados y publicados por orden del Supremo Gobierno de la misma república: I, Relación de un viaje geognóstico por la Provincia de Loja, Guayaquil, 1879, map at end.

LOCATION OF AREA COVERED:

1. Southwestern Ecuador.
2. Lat. $3^{\circ} 20'$ to $4^{\circ} 40'$ S.
Long. $81^{\circ} 32'$ to $82^{\circ} 26'$ W. (Paris).
 $79^{\circ} 12'$ to $80^{\circ} 6'$ W. (Greenwich).

SCALE: [1 : 875,000].

SIZE: $6\frac{3}{4}$ by $4\frac{1}{2}$ inches.

NUMBER OF FORMATIONS MAPPED: 5.

y. w.

34 GEOLOGICAL MAPS OF SOUTH AMERICA

33 USGS

TITLE:

Esquisse d'une carte de la constitution géologique de la Colombie.

PUBLISHED IN:

Hermann Karsten: Géologie de l'ancienne Colombie Bolivarienne (Venezuela, Nouvelle Grenade et Ecuador), Berlin, 1886, map opp. p. 62.

LOCATION OF AREA COVERED:

1. Northwestern South America.
2. Lat. 13° N. to 5° S.
Long. 60° to 82° W.

SCALE: About 110 miles to 1 inch (approx. 1 : 7,000,000).

SIZE: $9\frac{1}{2}$ by 14 inches.

NUMBER OF FORMATIONS MAPPED: 6.

34 USGS, AGS

TITLE:

Carte géologique de la Guyane française et d'une partie du bas Amazone d'après les recherches du Dr. J. Crevaux en 1878 et 1879, par Ch. Vélain.

PUBLISHED IN:

Charles Vélain: Esquisse géologique de la Guyane française et des bassins du Parou et du Yari (affluents de l'Amazone) d'après les explorations du Dr. Crevaux, *Bull. Soc. de Géogr. de Paris*, Ser. 7, Vol. 6, 1885, pp. 453-492, map opp. p. 596.

LOCATION OF AREA COVERED:

1. Northeastern Brazil (State of Pará).
2. Lat. 6° N. to 5° S.
Long. 50° to $58^{\circ} 40'$ W. (Paris).
 $47^{\circ} 40'$ to $56^{\circ} 20'$ W. (Greenwich).

SCALE: 1 : 6,000,000.

SIZE: 6 by 9 inches.

NUMBER OF FORMATIONS MAPPED: 10.

Y. K.

35

AGS

TITLE:

None. [Geological sketch-map of the upper part of the lower Amazon valley.]

PUBLISHED IN:

✓ Orville A. Derby: The Amazonian Carboniferous fauna, *Journ. of Geol.*, Vol. 2, 1894, pp. 480-481, map on p. 481. Chicago.

LOCATION OF AREA COVERED:

1. Upper part of lower Amazon valley (section from the mouth of the Rio Negro nearly to the mouth of the Xingú).
2. Lat. $0^{\circ} 30'$ to 5° S.
Long. 53° to 60° W.

SCALE: [1 : 7,666,000].

SIZE: 4 by $2\frac{1}{2}$ inches.

NUMBER OF FORMATIONS MAPPED: 6.

36

AGS

TITLE:

Geological sketch-map of the region about Natal, Rio Grande do Norte, Brazil.

PUBLISHED IN:

✓ O. P. Jenkins: Geology of the region about Natal, Rio Grande do Norte, Brazil, *Proc. Amer. Philos. Soc.*, Vol. 52, 1913, pp. 431-466, map on Pl. 22. Philadelphia. (Reprinted in "The Papers of the Stanford Expedition to Brazil, J. C. Branner, Director," Vol. 1, p. 57. Stanford University, Cal., 1913.)

LOCATION OF AREA COVERED:

1. Region about Natal, Rio Grande do Norte, Brazil.
2. Lat. 6° to 7° S.
Long. 35° to 36° W.

SCALE: [About 1 : 225,000].

SIZE: 8 by 8 inches.

NUMBER OF FORMATIONS MAPPED: 5.

TITLE:

Carta geologica de região litoranea do Estado do Ceará.

PUBLISHED IN:

✓ H. L. Small: Geologia a supprimento d'agua subterranea no Piauhy e parte do Ceará, *Inspectoria de Obras Contra as Seccas Publ. No. 32*, Ministerio de Viação e Obras Publicas, Rio de Janeiro, 1914, map opp. p. 28.

LOCATION OF AREA COVERED:

1. Coast region of Ceará to 100 miles inland.
2. Lat. $2^{\circ} 45'$ to $5^{\circ} 45'$ S.
Long. $37^{\circ} 10'$ to $41^{\circ} 20'$ W.

SCALE: 1 : 1,000,000.

SIZE: 15 by 22 inches.

NUMBER OF FORMATIONS MAPPED: 6.

TITLE:

Geological map of the region along the Natal a Nova Cruz Railway, Rio Grande do Norte, Brazil.

PUBLISHED IN:

J. C. Branner: Geology of the northeast coast of Brazil, *Bull. Geol. Soc. of America*, Vol. 13, 1901-02, pp. 41-98, map on Pl. 15 opp. p. 93.

LOCATION OF AREA COVERED:

1. Northeastern coast of Brazil.
2. Lat. $5^{\circ} 40'$ to $6^{\circ} 30'$ S.
Long. 34° to $35^{\circ} 25'$ W.

SCALE: About 8 miles to 1 inch (approx. 1 : 500,000).

SIZE: 4 by 7 inches.

NUMBER OF FORMATIONS MAPPED: 2.

✓ TITLE:

Carta geológica de Colombia, Venezuela y Ecuador.

PUBLISHED IN:

Agustín Codazzi: Atlas de la República de Colombia,
Paris, 1889, Pl. 17.

LOCATION OF AREA COVERED:

1. Venezuela, Colombia, Ecuador.
2. Lat. $13^{\circ} 30' N.$ to $6^{\circ} 45' S.$
Long. 60° to $82^{\circ} 30' W.$

SCALE: [1 : 5,400,000].

SIZE: 18 by 21 inches.

NUMBER OF FORMATIONS MAPPED: 6.

✓ TITLE:

Mapa geológico de la zona petrolífera norte del Perú, 1912.

PUBLISHED IN:

R. A. Deustua: Estado actual y porvenir de la industria petrolífera en el Perú, *Bol. Soc. Geogr. Lima*, Vol. 28, 1912, No. 1-2, pp. 12-102, map opp. p. 92.

LOCATION OF AREA COVERED:

1. Northwestern Peru.
2. Lat. 3° to $6^{\circ} 40' S.$
Long. 79° to $81^{\circ} 30' W.$

SCALE: 1 mm. = 3 kms. (1 : 3,000,000).

SIZE: $5\frac{3}{8}$ by $4\frac{1}{4}$ inches.

NUMBER OF FORMATIONS MAPPED: 5.

42 GEOLOGICAL MAPS OF SOUTH AMERICA

41 USGS, AGS

TITLE:

Geological map of the eastern part of Parahyba do Norte, Brazil.

PUBLISHED IN:

J. C. Branner: Geology of the northeast coast of Brazil, *Bull. Geol. Soc. of America*, Vol. 13, 1901-02, pp. 41-98, map on Pl. 4 opp. p. 41.

LOCATION OF AREA COVERED:

1. Northeastern Brazil.
2. Lat. $6^{\circ} 25'$ to $7^{\circ} 40'$ S.
Long. $34^{\circ} 40'$ to $35^{\circ} 45'$ W.

SCALE: [1 : 1,000,000].

SIZE: $4\frac{1}{2}$ by $5\frac{1}{2}$ inches.

NUMBER OF FORMATIONS MAPPED: 2.

42 USGS

TITLE:

Esboço do mappa geologico dos Estados da Parahyba e Rio Grande do Norte.

PUBLISHED IN:

R. H. Soper: Geologia e supprimento d'agua subterranea no Rio Grande do Norte e Parahyba, *Inspectoria de Obras Contra as Seccas Publ. No. 26*, Ministerio da Viação e Obras Publicas, Rio de Janeiro, 1913.

LOCATION OF AREA COVERED:

1. Northeastern Brazil (States of Rio Grande do Norte and Parahyba).
2. Lat. 4° to 8° S.
Long. 34° to $38^{\circ} 30'$ W.

SCALE: 1 : 1,000,000.

SIZE: 20 by 20 inches.

NUMBER OF FORMATIONS MAPPED: 4.

44 GEOLOGICAL MAPS OF SOUTH AMERICA

43 AGS

TITLE:

Geologic map of the States of Parahyba and Rio Grande do Norte, Brazil.

PUBLISHED IN:

R. H. Soper: The geology of the States of Parahyba and Rio Grande do Norte, *Proc. Amer. Philos. Soc.*, Vol. 55, 1916, pp. 1-20, map on Pl. 1. Philadelphia.

LOCATION OF AREA COVERED:

1. Northeastern Brazil (States of Rio Grande do Norte and Parahyba).
2. Lat. 4° to 8° S.
Long. 34° to $38^{\circ} 30'$ W.

SCALE: 1 : 3,000,000.

SIZE: $5\frac{1}{2}$ by $6\frac{1}{2}$ inches.

NUMBER OF FORMATIONS MAPPED: 4.

44 USGS, AGS

TITLE:

Roderic Crandall and H. E. Williams: Mappa reduzido dos Estados do Ceará, Parahyba e Rio Grande do Norte: Mappa geologico.

PUBLISHED AS:

Inspectoria de Obras Contra as Seccas Publ. No. 7, Ministerio da Viação e Obras Publicas, Rio de Janeiro, 1910. (Note: This map was published without a text, but J. C. Branner says that *Inspectoria de Obras Contra as Seccas Publ. No. 4* may be so considered.)

LOCATION OF AREA COVERED:

1. Coast line, northeastern Brazil.
2. Lat. $2^{\circ} 40'$ to 8° S.
Long. $34^{\circ} 40'$ to 42° W.

SCALE: 1 : 3,000,000.

SIZE: 8 by 11 inches.

NUMBER OF FORMATIONS MAPPED: 5.

46 GEOLOGICAL MAPS OF SOUTH AMERICA

45 USGS

TITLE:

Esboço do mappa geologico dos Estados do Ceará e Piauhy.

PUBLISHED IN:

H. L. Small: Geologia e supprimento d'agua subterranea do Ceará e parte do Piauhy, *Inspectoria de Obras Contra as Seccas Publ. No. 25*, Ministerio da Viação e Obras Publicas, Rio de Janeiro, 1913.

LOCATION OF AREA COVERED:

1. Northeastern Brazil.
2. Lat. $2^{\circ} 30'$ to 8° S.
Long. $37^{\circ} 45'$ to 42° W.

SCALE: 1 : 1,000,000.

SIZE: 20 by 20 inches.

NUMBER OF FORMATIONS MAPPED: 3.

46 USGS, AGS

TITLE:

Geological sketch map of the region about Pernambuco, Brazil.

PUBLISHED IN:

J. C. Branner: Geology of the northeast coast of Brazil, *Bull. Geol. Soc. of America*, Vol. 13, 1901-02, pp. 41-98, map on Pl. II opp. p. 62.

LOCATION OF AREA COVERED:

1. Northeastern Brazil.
2. Lat. $7^{\circ} 30'$ to 9° S.
Long. $34^{\circ} 40'$ to $36^{\circ} 20'$ W.

SCALE: [1 : 930,000].

SIZE: 7 by 8 inches.

NUMBER OF FORMATIONS MAPPED: 2.

48 GEOLOGICAL MAPS OF SOUTH AMERICA

47 USGS

TITLE:

Versuch einer geologischen Karte des unteren Amazonasgebietes (des Staates Para in Brasilien).

PUBLISHED IN:

Friedrich Katzer: Grundzüge der Geologie des unteren Amazonasgebietes (des Staates Para in Brasilien), Leipzig, 1903.

LOCATION OF AREA COVERED:

1. Around mouth of the Amazon River.
2. Lat. 4° N. to 9° S.
Long. 46° to $59^{\circ} 30'$ W.

SCALE: 1 : 4,400,000.

SIZE: 14 by 14 inches.

NUMBER OF FORMATIONS MAPPED: 18.

48 AGS

TITLE:

Croquis minero de Chacas y San Luis.

PUBLISHED IN:

E. I. Dueñas: Recursos minerales de los distritos de Chacas y San Luis, *Bol. Cuerpo de Ingenieros de Minas del Perú No. 15*, Lima, 1904, map on Pl. 3.

LOCATION OF AREA COVERED:

1. Northwestern Peru.
2. Lat. $8^{\circ} 58'$ to $9^{\circ} 31'$ S.
Long. $77^{\circ} 13'$ to $77^{\circ} 41'$ W.

SCALE: 1 : 200,000.

SIZE: $10\frac{1}{2}$ by 12 inches.

NUMBER OF FORMATIONS MAPPED: 3.

Y. K.

49

USGS, AGS

TITLE:

Coast of northern Brazil from the hydrographic charts, with a portion in detail from a traverse by G. A. Waring, showing reefs.

PUBLISHED IN:

G. A. Waring: Reef formations of the northeast coast of Brazil, *Amer. Journ. of Sci.*, Ser. 4, Vol. 37, 1914, pp. 367-390, map on Pl. 9 opp. p. 367. New Haven.

LOCATION OF AREA COVERED:

1. Coast of northeastern corner of Brazil.
2. Lat. $2^{\circ} 45'$ to $9^{\circ} 40'$ S. (coast line).
Long. 32° to 41° W.

SCALE: [1 : 6,000,000].

SIZE: 8 by 6 inches.

NUMBER OF FORMATIONS MAPPED: 3.

50

AGS

TITLE:

Croquis geológico de las Provincias de Pallasca, Huaylas y Yungay.

PUBLISHED IN:

J. M. Yáñez León: Yacimientos carboníferos de las Provincias de Pallasca, Huaylas y Yungay, *Bol. Cuerpo de Ingenieros de Minas del Perú No. 90*, Lima, 1918, map at end.

LOCATION OF AREA COVERED:

1. West-central Peru.
2. Lat. 8° to $9^{\circ} 40'$ S.
Long. $77^{\circ} 20'$ to 79° W.

SCALE: [1 : 500,000].

SIZE: $14\frac{1}{2}$ by $14\frac{1}{2}$ inches.

NUMBER OF FORMATIONS MAPPED: 8.

51

USGS, AGS

TITLE:

Map of a portion of South America showing the position and extent of the old river deposit on the Amazon, east of Tabatinga.

PUBLISHED IN:

C. Barrington Brown: On the ancient river-deposit of the Amazon, *Quart. Journ. Geol. Soc.*, Vol. 35, 1879, pp. 763-777, map on Pl. 38 opp. p. 776. London.

LOCATION OF AREA COVERED:

1. Amazon lowland.
2. Lat. 0° to 10° S.
Long. $47^{\circ} 40'$ to $72^{\circ} 20'$ W.

SCALE: [1 : 8,500,000].

SIZE: $6\frac{1}{2}$ by $11\frac{1}{2}$ inches.

NUMBER OF FORMATIONS MAPPED: 2.

52

USGS

TITLE:

Geology of eastern Alagoas.

PUBLISHED IN:

J. C. Branner: The geology of the coast of the State of Alagoas, Brazil, *Annals Carnegie Museum*, Vol. 7, 1910, pp. 5-22, map opp. p. 22. Pittsburgh.

LOCATION OF AREA COVERED:

1. Northeastern coast of Brazil.
2. Lat. $8^{\circ} 36'$ to $10^{\circ} 36'$ S.
Long. 8° to 6° E. (Rio de Janeiro).
 $35^{\circ} 10'$ to $37^{\circ} 10'$ W. (Greenwich).

SCALE: About 19.5 miles to 1 inch (approx. 1 : 1,250,000).

SIZE: $7\frac{1}{2}$ by $7\frac{1}{2}$ inches.

NUMBER OF FORMATIONS MAPPED: 4.

53

USGS

TITLE:

J. H. Baso and others: Map of the Cerro de Pasco mining district, Peru, S. A., to accompany the reports of the Cerro de Pasco Mining Commission, 1887, by A. D. Hodges, Jr., and E. E. Olcott, E. M.

PUBLISHED BY:

Leo Rosenberg, 36 Broadway, New York. (A similar map in 1 : 24,000 entitled "Topographical and geological plan of the basin of Cerro de Pasco, Peru" is given on page 738 of A. D. Hodges, Jr.: Notes on the topography and geology of the Cerro de Pasco, Peru, *Trans. Amer. Inst. Min. Eng.*, Vol. 16, 1887, pp. 729-753.)

LOCATION OF AREA COVERED:

1. Cerro de Pasco mining district, central Peru.
2. Lat. $10^{\circ} 40'$ to $10^{\circ} 45'$ S.
Long. $76^{\circ} 13'$ to $76^{\circ} 16'$ W.

SCALE: 1 : 8,000.

SIZE: $24\frac{1}{2}$ by $34\frac{3}{4}$ inches.

NUMBER OF FORMATIONS MAPPED: 4.

54

USGS, AGS

TITLE:

View and topographical plan of the new town of the Hill of Pasco taken from the Lake of Quiulacocha.

PUBLISHED IN:

M. de Rivero: Sketch of the rich mine of Pasco, *Amer. Journ. of Sci.*, Vol. 17, 1830, pp. 43-63, map opp. p. 216. New Haven.

LOCATION OF AREA COVERED:

1. Town of Pasco, central Peru.
2. Lat. $10^{\circ} 55'$ S.
Long. $75^{\circ} 40'$ W.

SCALE: 1 : 22,550.

SIZE: 7 by $10\frac{1}{2}$ inches.

NUMBER OF FORMATIONS MAPPED: 5.

55

AGS

TITLE:

- A. Zusammensetzung der Sierra von Süd-Ecuador und von Perú (nördlich 11° S. B.).
 B. Fortsetzung der Hauptkarte über Süd-Ecuador.

PUBLISHED IN:

Wilhelm Sievers: Reise in Perú und Ecuador, ausgeführt 1909, *Wiss. Veröffentl. Gesell. für Erdkunde Leipzig*, Vol. 8, 1914, map No. 1 (A, main part; B, inset map) at end.

LOCATION OF AREA COVERED:

1. Southern Ecuador and northern Peru.
2. Lat. 2° to 10° 55' S.
 Long. 75° 50' to 82° 20' W.

SCALE: (A) 1 : 1,200,000. (B) 1 : 2,500,000.

SIZE: 16½ by 13½ inches.

NUMBER OF FORMATIONS MAPPED: 9.

56

USGS, AGS

TITLE:

General geology of a portion of the States of Maranhão and Piauí, Brazil.

PUBLISHED IN:

Miguel A. R. Lisboa: The Permian geology of northern Brazil, *Amer. Journ. of Sci.* Ser. 4, Vol. 37, 1914, pp. 425-443, map on p. 426. New Haven.

LOCATION OF AREA COVERED:

1. Larger part of State of Maranhão and part of State of Piauí, northeastern Brazil.
2. Lat. 0° to 11° S.
 Long. 8° E. to 1° 30' W. (Rio de Janeiro).
 35° 10' to 44° 40' W. (Greenwich).

SCALE: [1 : 5,750,000].

SIZE: 4 by 5 inches.

NUMBER OF FORMATIONS MAPPED: 4.

TITLE:

Croquis geológico de la región de Morococha.

PUBLISHED IN:

Alberto Jochamowitz: Estado actual de la minería en Morococha (Informe Anual de la Comisión de Yauli), *Bol. Cuerpo de Ingenieros de Minas del Perú No. 65*, map on Pl. 4. Lima, 1908.

LOCATION OF AREA COVERED:

1. District of Morococha, Peru.
2. Lat. $11^{\circ} 36'$ to $11^{\circ} 42'$ S.
Long. $76^{\circ} 5'$ to $76^{\circ} 12'$ W.

SCALE: 1 : 50,000.

SIZE: 9 by 10 inches.

NUMBER OF FORMATIONS MAPPED: 6.

TITLE:

A. Raimondi: Geología de las inmediaciones de Morococha. 1861.

PUBLISHED IN:

Antonio Raimondi: Estudio geológico del camino entre Lima y Morococha y alrededores de esta hacienda [written in 1861], *Bol. Soc. Geogr. Lima*, Vol. 12, 1902, pp. 299-358, map facing p. 360.

LOCATION OF AREA COVERED:

1. Cerro de Pasco district, Peru.
2. Lat. $11^{\circ} 30'$ to $11^{\circ} 45'$ S.
Long. 76° to $76^{\circ} 20'$ W.

SCALE: 48 milímetros por legua (about 1 : 150,000).

SIZE: 14 by 18 inches.

NUMBER OF FORMATIONS MAPPED: 16.

59

AGS

TITLE:

Sketch map of the approximate limestone areas of the interior of Bahia, Brazil.

PUBLISHED IN:

J. C. Branner: Aggraded limestone plains of the interior of Bahia and the climate changes suggested by them, *Bull. Geol. Soc. of America*, Vol. 22, 1911, pp. 187-206, map on Pl. 14.

LOCATION OF AREA COVERED:

1. North-central part of Bahia, Brazil.
2. Lat. 9° to 12° S.
Long. 41° to 43° W.

SCALE: [1 : 2,000,000].

SIZE: $8\frac{1}{2}$ by $6\frac{1}{2}$ inches.

NUMBER OF FORMATIONS MAPPED: 1.

60

USGS, AGS

TITLE:

Parts of Bahia and Sergipe showing the approximate distribution of the Estancia series (Permian).

PUBLISHED IN:

J. C. Branner: The Estancia beds of Bahia, Sergipe, and Alagoas, Brazil, *Amer. Journ. of Sci.*, Ser. 4, Vol. 35, 1913, pp. 619-632, map on p. 619. New Haven.

LOCATION OF AREA COVERED:

1. Coast of east-central Brazil.
2. Lat. $10^{\circ} 30'$ to 13° S.
Long. 37° to $39^{\circ} 15'$ W.

SCALE: [1 : 2,500,000].

SIZE: 4 by $4\frac{1}{2}$ inches.

NUMBER OF FORMATIONS MAPPED: 4.

61

PAU, AGS

TITLE:

Yacimiento mercurial de Huancavelica.

PUBLISHED IN:

A. F. Umlauff: El cinabrio de Huancavelica, *Bol. Cuerpo de Ingenieros de Minas del Perú* No. 7, pp. 3-59, map on Pl. 2. Lima, 1904.

LOCATION OF AREA COVERED:

1. Central Peru.
2. Lat. $12^{\circ} 42'$ to $13^{\circ} 10'$ S.
Long. $74^{\circ} 55'$ to $75^{\circ} 11'$ W.

SCALE: 1 : 200,000.

SIZE: $6\frac{1}{2}$ by $10\frac{1}{2}$ inches.

NUMBER OF FORMATIONS MAPPED: 10.

62

AGS

TITLE:

Mappa geologico do Estado de Sergipe e da parte nordeste do Estado da Bahia.

PUBLISHED IN:

R. H. Soper [incorrectly "Sopper" on title page]: Geologia e supprimento d'agua subterranea em Sergipe e no nordeste da Bahia, *Inspectoria de Obras Contra as Seccas Publ. No. 34*, Ministerio da Viação e Obras Publicas, Rio de Janeiro, 1914, map in pocket at end.

LOCATION OF AREA COVERED:

1. State of Sergipe and northeastern part of the State of Bahia, Brazil.
2. Lat. $8^{\circ} 15'$ to $13^{\circ} 20'$ S.
Long. $35^{\circ} 30'$ to 40° W.

SCALE: 1 : 1,000,000.

SIZE: 19 by 23 inches.

NUMBER OF FORMATIONS MAPPED: 4.

64 GEOLOGICAL MAPS OF SOUTH AMERICA

63 USGS

TITLE:

Geologic sketch map of the Chapada Diamantina of the State of Bahia, Brazil.

PUBLISHED IN:

J. C. Branner: The diamond-bearing highlands of Bahia, *Engineering and Mining Journ.*, Vol. 87, 1909, pp. 981-986, map on p. 982. New York.

LOCATION OF AREA COVERED:

1. Central coast of Brazil (State of Bahia).
2. Lat. $9^{\circ} 10'$ to $13^{\circ} 36' S$.
Long. 0° to $5^{\circ} E$. (Rio de Janeiro).
 $43^{\circ} 10'$ to $38^{\circ} 10' W$. (Greenwich).

SCALE: About 206 miles to 1 inch (approx. 1 : 13,000,000).

SIZE: 6 by 7 inches.

NUMBER OF FORMATIONS MAPPED: 4.

64 PAU, AGS

TITLE:

None. [Geological map of Province of Ica, Peru.]

PUBLISHED IN:

F. G. Fuchs: La región cuprífera de los alrededores de Ica y Nazca, *Bol. Cuerpo de Ingenieros de Minas del Perú No. 29*, Lima, 1905.

LOCATION OF AREA COVERED:

1. Province of Ica, Peru.
2. That part of the province which lies between lat. $13^{\circ} 42'$ and $15^{\circ} 37' S$.

SCALE: 1 : 500,000.

SIZE: 19 by 21 inches.

NUMBER OF FORMATIONS MAPPED: 5.

65

AGS

TITLE:

Outline sketch showing the principal rock belts of Peru along the seventy-third meridian.

PUBLISHED IN:

Isaiah Bowman: The Andes of southern Peru: Geographical reconnaissance along the seventy-third meridian, American Geographical Society, New York, 1916, map on p. 235.

LOCATION OF AREA COVERED:

1. South-central part of Peru.
2. Lat. $11^{\circ} 40'$ to 17° S.
Long. $71^{\circ} 40'$ to $73^{\circ} 20'$ W.

SCALE: [1 : 3,200,000].

SIZE: $2\frac{1}{8}$ by $7\frac{3}{8}$ inches.

NUMBER OF FORMATIONS MAPPED: 12.

66

PAU

TITLE:

Plano topográfico de los terrenos de Tacna y Arica, y estudio geológico de esa región.

PUBLISHED IN:

A. Orrego Cortés: Estudio geológico e hidrológico en las Provincias de Tacna y Arica, Sociedad Nacional de Minería, Santiago, Chile, 1910.

LOCATION OF AREA COVERED:

1. Northern boundary region of Chile.
2. Lat. $17^{\circ} 58'$ to $18^{\circ} 12'$ S.
Long. 70° to $70^{\circ} 27'$ W.

SCALE: 1 : 100,000.

SIZE: 21 by 28 inches.

NUMBER OF FORMATIONS MAPPED: 7.

T. Sa-B.

67

AGS

TITLE:

Mapa geológico y topográfico del Cerro Rico de Potosí y sus alrededores: Reconocimiento según Arturo E. Wendt y triangulaciones de Frederick [sic] A. Canfield, E. M.

PUBLISHED IN:

A. F. Wendt: (M. V. Ballivián and Edmundo Sologuren, trans.) El distrito minero de plata de Potosí, Bolivia, *Bol. Soc. Geogr. La Paz*, Vol. 3, 1901, No. 9-10-11, pp. 394-432, No. 12-13, pp. 481-498, map at end of No. 12-13.

LOCATION OF AREA COVERED:

1. Southern Bolivia.
2. Lat. $19^{\circ} 25'$ to $19^{\circ} 50'$ S.
Long. $65^{\circ} 35'$ to $66^{\circ} 5'$ W.

SCALE: [About 1 : 135,000].

SIZE: $5\frac{1}{4}$ by 9 inches.

NUMBER OF FORMATIONS MAPPED: 8.

68

USGS, AGS

TITLE:

Geological map of a portion of southeastern Mato Grosso.

PUBLISHED IN:

J. W. Evans: The geology of Mato Grosso, *Quart. Journ. Geol. Soc.*, Vol. 50, 1894, pp. 85-104, map on Pl. 8. London.

LOCATION OF AREA COVERED:

1. South-central Brazil.
2. Lat. $14^{\circ} 20'$ to $20^{\circ} 15'$ S.
Long. $54^{\circ} 30'$ to $58^{\circ} 45'$ W. (Minus rectangle out of southeastern corner 3° in lat. by 2° in long.)

SCALE: 1 : 2,500,000.

SIZE: 6 by 10 inches.

NUMBER OF FORMATIONS MAPPED: 9.

y. w.

TITLE:

Esquisse géognostique du terrain aurifère de Minas Geraes.

PUBLISHED IN:

A. Pissis: Mémoire sur la position géologique des terrains de la partie australe du Brésil, *Mémoires Présentés par Divers Savants à l'Académie des Sciences de l'Institut National de France*, Vol. 10, 1848, pp. 353-413, map opp. p. 412.

LOCATION OF AREA COVERED:

1. Central Brazil (State of Minas Geraes).
2. Lat. $19^{\circ} 45'$ to $20^{\circ} 45'$ S.
Long. $43^{\circ} 10'$ to 44° W.

SCALE: About $4/10$ of a mile to 1 inch (approx. 1 : 25,000).

SIZE: $13\frac{1}{2}$ by 17 inches.

NUMBER OF FORMATIONS MAPPED: 5.

TITLE:

Croquis jeológico de los Andes de Pica.

PUBLISHED IN:

J. Brügger: Informe sobre el agua subterranea de la región de Pica, Sociedad Nacional de Minería, Santiago, Chile, 1918.

LOCATION OF AREA COVERED:

1. Northern Chile.
2. Lat. 20° to $20^{\circ} 45'$ S.
Long. $68^{\circ} 30'$ to $69^{\circ} 30'$ W.

SCALE: 1 : 250,000.

SIZE: 18 by 18 inches.

NUMBER OF FORMATIONS MAPPED: 7.

Y. P.

72 GEOLOGICAL MAPS OF SOUTH AMERICA

71 USGS, AGS

TITLE:

Ilha da Trindade.

PUBLISHED IN:

J. C. Branner: Outlines of the geology of Brazil to accompany the geologic map of Brazil, *Bull. Geol. Soc. of America*, Vol. 30, 1919, pp. 189-338, inset on main map, opp. 189.

LOCATION OF AREA COVERED:

1. Island off the southeastern coast of Brazil.
2. Lat. $20^{\circ} 30' S$.
Long. $29^{\circ} 19' W$.

SCALE: [1 : 70,000].

SIZE: $3\frac{5}{8}$ by 5 inches.

NUMBER OF FORMATIONS MAPPED: 1.

72 AGS

TITLE:

Mapa paleontológico del Perú.

PUBLISHED IN:

C. I. Lisson: Edad de los fosiles peruanos y distribución de sus depósitos en la República, Lima, 1913.

LOCATION OF AREA COVERED:

1. Peruvian coast and Cordillera Occidental in Peru.
2. Lat. $2^{\circ} N$. to $20^{\circ} 30' S$.
Long. 66° to $81^{\circ} 30' W$.

SCALE: 1 : 3,000,000.

SIZE: $23\frac{1}{2}$ by $33\frac{1}{2}$ inches.

NUMBER OF FORMATIONS MAPPED: 9.

74 GEOLOGICAL MAPS OF SOUTH AMERICA

73 USGS, AGS

TITLE:

Map of central Minas Geraes.

PUBLISHED IN:

E. C. Harder and R. T. Chamberlin: The geology of central Minas Geraes, Brazil, *Journ. of Geol.*, Vol. 23, 1915, pp. 341-423, map on p. 347. Chicago.

LOCATION OF AREA COVERED:

1. Southeastern Brazil.
2. Lat. 18° to $21^{\circ} 10'$ S.
Long. $42^{\circ} 12'$ to $44^{\circ} 22'$ W.

SCALE: [1 : 2,200,000].

SIZE: 4 by 6 inches.

NUMBER OF FORMATIONS MAPPED: 7.

74 PAU, AGS

TITLE:

La formación petrolífera de Salta y Jujuy: Primera zona al norte del Río Bermejo (Distrito Minero de Tartagal).

PUBLISHED IN:

Guido Bonarelli: Las sierras subandinas del Alto y Aguaraquí y los yacimientos petrolíferos del Distrito Minero de Tartagal, *Anal. Minist. de Agric.: Sección Geol., Mineral. y Minería*, Vol. 8, No. 4, Buenos Aires, 1913, map at end.

LOCATION OF AREA COVERED:

1. Northern Argentina.
2. Lat. $21^{\circ} 50'$ to $23^{\circ} 15'$ S.
Long. $63^{\circ} 50'$ to $64^{\circ} 25'$ W.

SCALE: 1 : 200,000.

SIZE: 37 by 20 inches.

NUMBER OF FORMATIONS MAPPED: 6.

75 USGS*

TITLE:

Carte géologique de la République de Bolivia.

PUBLISHED IN:

Alcide d'Orbigny: Voyage dans l'Amérique méridionale (le Brésil, l'Uruguay, la République Argentine, la Patagonie, Chili, Bolivia, Pérou) exécuté pendant les années 1826-1833, Vol. 3, Part 3, Atlas de la Géologie, map No. 4, Paris, 1843.

LOCATION OF AREA COVERED:

All of Bolivia.

SCALE: 1 : 1,600,000.

SIZE: 34 by 40 inches (in two sheets).

NUMBER OF FORMATIONS MAPPED: 15.

76 PAU, AGS

TITLE:

Mapa geológico-económico de la República Argentina, sexta sección: La formación petrolífera de Salta y Jujuy, segunda zona (Distrito Minero de Orán).

PUBLISHED IN:

Guido Bonarelli: La estructura geológica y los yacimientos petrolíferos del Distrito Minero de Orán, Provincia de Salta, *Direcc. Gen. de Minas, Geol. e Hidrol., Ser. B, Bol. No. 9*, Minist. de Agric., Buenos Aires, 1914, map at end.

LOCATION OF AREA COVERED:

1. Extreme northern provinces of Argentina.
2. Lat. 22° 30' to 23° 40' S.
Long. 64° to 65° W.

SCALE: 1 : 200,000.

SIZE: 18 by 30 inches.

NUMBER OF FORMATIONS MAPPED: 7.

* This map in the copy of the atlas in the U. S. Geological Survey library shows no geological coloring, only the geological boundaries. The present details are supplied from a copy in the New York Public Library.

Y. O.

Y. B.

77

USGS

TITLE:

Itinéraire géologique de Georges Courty à travers le Chili et la Bolivie.

PUBLISHED IN:

Georges Courty: Explorations géologiques dans l'Amérique du Sud, suivi de tableaux météorologiques, *Publs. de la Mission Scientifique G. de Créqui Montfort et E. Sénéchal de la Grange*, Paris, 1907, map opp. p. 1.

LOCATION OF AREA COVERED:

1. Northern Chile and Andes of Bolivia.

2. Lat. 16° to 24° S.

Long. $67^{\circ} 40'$ to $73^{\circ} 20'$ W. (Paris).

$65^{\circ} 20'$ to 71° W. (Greenwich).

SCALE: 1 : 3,000,000.

SIZE: 8 by 12 inches.

NUMBER OF FORMATIONS MAPPED: 9.

78

USGS

TITLE:

O. A. Derby: Esboço geologico da parte oriental de São Paulo.

PUBLISHED IN:

J. C. Branner: Geologia elementar, 2nd edit., Rio de Janeiro, 1915, map on p. 320.

LOCATION OF AREA COVERED:

1. South-central Brazil.

2. Lat. $20^{\circ} 30'$ to $24^{\circ} 15'$ S.

Long. 45° to 50° W.

SCALE: About 74 miles to 1 inch (approx. 1 : 4,700,000).

SIZE: $4\frac{1}{2}$ by 4 inches.

NUMBER OF FORMATIONS MAPPED: 5.

79

USGS, AGS

TITLE:

La Provincia de Jujuy, República Argentina.

PUBLISHED IN:

Luis Brackebusch: Estudios sobre la formación petrolífera de Jujuy, *Bol. Acad. Nacl. de Ciencias en Córdoba (República Argentina)*, Vol. 5, 1883, pp. 137-252, map at end.

LOCATION OF AREA COVERED:

1. Northern Argentina.
2. Lat. 22° to 25° S.
Long. 63° to 67° W.

SCALE: 1 : 1,000,000.

SIZE: 14 by 13 inches.

NUMBER OF FORMATIONS MAPPED: 9.

80

USGS, LC, AGS

TITLE:

Leonardo Olmos: Mapa geológico de Bolivia.

PUBLISHED AS:

Ministerio de Justicia e Industria: Anexos á la Memoria de 1912, La Paz, Bolivia.

LOCATION OF AREA COVERED:

All of Bolivia.

SCALE: 1 : 2,500,000.

SIZE: 21 by 27 inches.

NUMBER OF FORMATIONS MAPPED: 15.

81 USGS

TITLE:

G. Bonarelli: Esquema tectónico de la región petrolífera subandina del norte (Prov. de Salta y Jujuy).

PUBLISHED IN:

E. Hermitte: La geología y minería argentinas en 1914: Contribución geológica al Censo Nacional de 1914, Buenos Aires, 1915.

LOCATION OF AREA COVERED:

1. Northern Argentina.
2. Lat. 22° to $25^{\circ} 30' S$.
Long. $63^{\circ} 15'$ to $65^{\circ} 45' W$.

SCALE: 1 : 1, 200,000.

SIZE: 5 by 8 inches.

NUMBER OF FORMATIONS MAPPED: 5.

82 USGS, AGS

TITLE:

None. [Geological sketch map of east-central Paraná, Brazil, by Euzebio de Oliveira.]

PUBLISHED IN:

J. M. Clarke: Fosseis devonianos do Paraná, *Monographias do Serviço Geologico e Mineralogico do Brasil*, Vol. 1, 1913, map on p. 63. Rio de Janeiro.

LOCATION OF AREA COVERED:

1. Southern Brazil (State of Paraná).
2. Lat. $23^{\circ} 52'$ to $25^{\circ} 38' S$.
Long. $49^{\circ} 10'$ to $50^{\circ} 40' W$.

SCALE: 1 : 1,000,000.

SIZE: 5 by $6\frac{1}{2}$ inches.

NUMBER OF FORMATIONS MAPPED: 3.

J.C.

84 GEOLOGICAL MAPS OF SOUTH AMERICA

83 USGS, AGS

TITLE:

d'Orbigny and others: Mapa geológico de Bolivia.

PUBLISHED IN:

Alcide d'Orbigny: Estudios sobre la geología de Bolivia, traducidos y acompañados de algunas notas y un mapa geológico de Bolivia por Victor E. Marchant, Ministerio de Colonización y Agricultura, Sección de Estadística y Estudios Geográficos, La Paz, 1907.

LOCATION OF AREA COVERED:

All of Bolivia.

SCALE: [1 : 9,000,000].

SIZE: 8 by 12 inches.

NUMBER OF FORMATIONS MAPPED: 11.

84 USGS, AGS

TITLE:

Geological sketch map of part of Bolivia and Peru.

PUBLISHED IN:

David Forbes: On the geology of Bolivia and Southern Peru, *Quart. Journ. Geol. Soc.*, Vol. 17, 1861, pp. 7-62, map on Pl. 1. London. (Reproduced on same scale in *Bol. Soc. Geogr. de La Paz*, Vol. 3, 1901, No. 4, Pl. 1.)

LOCATION OF AREA COVERED:

1. Southern Peru and northern Chile with part of Bolivia.

2. Lat. 15° to 26° S.

Long. 65° to 72° W. (Minus small rectangle out of south-eastern corner as follows: lat. 20° to 26° S., long. 65° to 68° W.)

SCALE: [1 : 7,000,000].

SIZE: 4 by 7 inches.

NUMBER OF FORMATIONS MAPPED: 8.

85 USGS

TITLE:

Esboço geológico da região-tipo do sul do Brazil.

PUBLISHED IN:

Euzebio Paulo de Oliveira: Regiões carboníferas dos estados do sul, Serviço Geológico e Mineralógico do Brasil, Rio de Janeiro, 1918, map opp. p. 20.

LOCATION OF AREA COVERED:

1. Southern Brazil (State of Paraná).
2. Lat. $22^{\circ} 20'$ to $26^{\circ} 20'$ S.
Long. $47^{\circ} 50'$ to $51^{\circ} 30'$ W.

SCALE: 1 : 2,000,000.

SIZE: $8\frac{1}{2}$ by 14 inches.

NUMBER OF FORMATIONS MAPPED: 8.

86 USGS

TITLE:

Carte géologique des provinces australes du Brésil.

PUBLISHED IN:

A. Pissis: Mémoire sur la position géologique des terrains de la partie australe du Brésil, *Mémoires Présentés par Divers Savants à l'Académie des Sciences de l'Institut National de France*, Vol. 10, 1848, pp. 353-413, map opp. p. 412.

LOCATION OF AREA COVERED:

1. Southeastern Brazil.
2. Lat. $12^{\circ} 30'$ to $26^{\circ} 30'$ S.
Long. 41° to $51^{\circ} 45'$ W. (Paris).
 $38^{\circ} 40'$ to $49^{\circ} 25'$ W. (Greenwich).

SCALE: About 40 miles to 1 inch (approx. 1 : 2,500,000).

SIZE: 18 by 24 inches.

NUMBER OF FORMATIONS MAPPED: 10.

Y.P.

87

USGS, PAU, AGS

TITLE:

Mapa geológico de una parte del Cajón del Cadillal.

PUBLISHED IN:

Juan Keidel: Composición y estructura geológica del Cajón del Cadillal, *Anal. Minist. de Agric.: Sección Geol., Mineral. y Minería*, Vol. 8, No. 3, Buenos Aires, 1913, map at end.

LOCATION OF AREA COVERED:

1. Province of Tucumán, northern Argentina.
2. Lat. $26^{\circ} 40' S$.
Long. $65^{\circ} 12' W$.

SCALE: 1 : 2,000.

SIZE: 22 by 36 inches.

NUMBER OF FORMATIONS MAPPED: 15.

88

PAU, AGS

TITLE:

La Puna de Atacama.

PUBLISHED IN:

Juan F. Barnabé: Los yacimientos minerales de la Puna de Atacama, *Anal. Minist. de Agric.: Sección Geol., Mineral. y Minería*, Vol. 10, No. 5, Buenos Aires, 1915, map No. 2, at end.

LOCATION OF AREA COVERED:

1. Northwestern Argentina.
2. Lat. $22^{\circ} 15'$ to $27^{\circ} S$.
Long. 66° to $69^{\circ} 30' W$.

SCALE: [1 : 2,000,000].

SIZE: 8 by 12 inches.

NUMBER OF FORMATIONS MAPPED 7.

TITLE:

None. [Geological sketch-map of part of the Province of Catamarca, Argentina, by Federico Schickendantz].

PUBLISHED IN:

Richard Napp: The Argentine Republic, Buenos Aires, 1876,
Chapter 12: The Natural Sulphates of the Province of
Catamarca, by Federico Schickendantz, map opp. p. 222.

LOCATION OF AREA COVERED:

1. Part of Province of Catamarca, Argentina.
2. Lat. $27^{\circ} 8'$ to $27^{\circ} 44'$ S.
Long. $67^{\circ} 7'$ to $66^{\circ} 20'$ W.

SCALE: [About 1 : 1,000,000].

SIZE: 3 by $6\frac{1}{2}$ inches.

NUMBER OF FORMATIONS MAPPED: 2.

TITLE:

Estudios geológicos e hidrogeológicos en la zona subandina
de las Provincias de Salta y Tucumán, 1917.

PUBLISHED IN:

Ricardo Stappenbeck: Estudios geológicos e hidrogeológicos
en la zona subandina de las Provincias de Salta y Tucumán
Anal. Minist. de Agric.: Sección Geol., Mineral. y Minería,
Vol. 14, No. 5, Buenos Aires, 1921.

LOCATION OF AREA COVERED:

1. Southeastern Tucumán and southwestern Salta, Argentina.
2. Lat. $25^{\circ} 30'$ to 27° S.
Long. 64° to $65^{\circ} 10'$ W.

SCALE: 1 : 500,000.

SIZE: 16 by 22 inches.

NUMBER OF FORMATIONS MAPPED: 15.

91

AGS

TITLE:

Der Bolsón von Fiambalá und seine Gebirgsumrandung (Südrand der Puna de Atacama). Topographisch und geologisch aufgenommen und entworfen von Prof. Dr. Walther Penck.

PUBLISHED IN:

Walther Penck: Der Südrand der Puna de Atacama (NW-Argentinien): Ein Beitrag zur Kenntniss des Andinen Gebirgstypus und zu der Frage der Gebirgsbildung, *Abhandl. Sächs. Akad. Wiss.: Math-Phys. Klasse*, Vol. 37, No. 1, Leipzig, 1920, map at end.

LOCATION OF AREA COVERED:

1. Province of Catamarca, Argentina.
2. Lat. $26^{\circ} 30'$ to $28^{\circ} 5'$ S.
Long. $67^{\circ} 10'$ to $68^{\circ} 15'$ W.

SCALE: 1 : 200,000.

SIZE: 23 by 29 inches.

NUMBER OF FORMATIONS MAPPED: 52.

92

PAU, AGS

TITLE:

Mapa geológico del Distrito Minero de Tinogasta.

PUBLISHED IN:

J. F. Barnabé: Informe sobre el Distrito Minero de Tinogasta (Provincia de Catamarca), *Anal. Minist. de Agric.: Sección Geol., Mineral. y Minería*, Vol. 10, No. 4, Buenos Aires, 1915, map at end.

LOCATION OF AREA COVERED:

1. Northwestern Argentina (Province of Catamarca).
2. Lat. 26° to 29° S.
Long. $66^{\circ} 30'$ to $69^{\circ} 30'$ W.

SCALE: 1 : 1,000,000.

SIZE: 12 by 14 inches.

NUMBER OF FORMATIONS MAPPED: 7.

94 GEOLOGICAL MAPS OF SOUTH AMERICA

93 USGS, AGS

TITLE:

Cordillere von Copiapó, nach Brackebusch, Domeyko, Stelzner und Steinmann.

PUBLISHED IN:

Berghaus' Physikalischer Atlas: Abteilung I: Geologie, inset on Pl. 14, 3rd edit., Gotha, 1892.

LOCATION OF AREA COVERED:

1. Northern coast of Chile and part of Argentina.
2. Lat. $25^{\circ} 40'$ to 30° S.
Long. $67^{\circ} 20'$ to coast 72° W.

SCALE: 1 : 7,500,000.

SIZE: $2\frac{1}{2}$ by $2\frac{1}{2}$ inches.

NUMBER OF FORMATIONS MAPPED: 11.

94 USGS

TITLE:

Carte géologique des environs de Coquimbo.

PUBLISHED IN:

Ignace Domeyko: Mémoire sur le terrain tertiaire et les lignes d'ancien niveau de l'Océan du Sud aux environs de Coquimbo (Chili), *Annales des Mines*, Ser. 4, Vol. 14, Paris, 1848, pp. 153-162, map on Pl. 2, Fig. 11.

LOCATION OF AREA COVERED:

1. Central coast of Chile.
2. Lat. $29^{\circ} 45'$ to $30^{\circ} 5'$ S.
Long. $71^{\circ} 12'$ to $71^{\circ} 32'$ W.

SCALE: About 3.8 miles to 1 inch (approx. 1 : 240,000).

SIZE: 7 by 10 inches.

NUMBER OF FORMATIONS MAPPED: 5.

✓ 96 GEOLOGICAL MAPS OF SOUTH AMERICA

95 USGS

TITLE:

Esquisse d'une carte géologique de la vallée d'Elqui.

PUBLISHED IN:

Ignace Domeyko: Notice sur un terrain stratifié situé dans le haut des Cordillères, et sur les filons métallifères qui l'accompagnent, *Annales des Mines*, Ser. 3, Vol. 18, Paris, 1840, pp. 59-74, map on Pl. 2, Fig. 5.

LOCATION OF AREA COVERED:

1. Central coast of Chile.
2. Lat. $29^{\circ} 55'$ to $30^{\circ} 10'$ S.
Long. $70^{\circ} 30'$ to $71^{\circ} 20'$ W.

SCALE: About 10 miles to 1 inch (approx. 1 : 635,000).

SIZE: $3\frac{1}{2}$ by 6 inches.

NUMBER OF FORMATIONS MAPPED: 7.

96 USGS, AGS

TITLE:

Plano topográfico y geológico de la falda oeste de la Sierra Chica entre Ongamira y Dolores, Prov. de Córdoba.

✓ PUBLISHED IN:

Eberhard Rimann: Estudio geológico de la Sierra Chica entre Ongamira y Dolores, *Bol. Acad. Nac. de Ciencias en Córdoba (República Argentina)*, Vol. 23, 1918, pp. 129-202, map at end.

LOCATION OF AREA COVERED:

1. West-central part of Province of Córdoba, Argentina.
2. Lat. $30^{\circ} 46'$ to $30^{\circ} 58'$ S.
Long. $64^{\circ} 26'$ to $64^{\circ} 34'$ W.

SCALE : 1 : 50,000.

SIZE: 11 by 18 inches.

NUMBER OF FORMATIONS MAPPED: 9.

97

USGS

TITLE:

Carte d'une partie de la République Argentine comprenant les provinces de Corrientes et des Missions.

PUBLISHED IN:

Alcide d'Orbigny: Voyage dans l'Amérique méridionale (le Brésil, l'Uruguay, la République Argentine, la Patagonie, Chili, Bolivia, Pérou) exécuté pendant les années 1826-1833, Vol. 3, Part 3, Atlas de la Géologie, map No. 3, Paris, 1843.

LOCATION OF AREA COVERED:

1. Northeastern Argentina.
2. Lat. 27° to 31° S.
Long. $56^{\circ} 30'$ to $62^{\circ} 48'$ W. (Paris).
 $54^{\circ} 10'$ to $60^{\circ} 28'$ W. (Greenwich).

SCALE: 13.8 miles to 1 inch (approx. 1 : 875,000).

SIZE: 20 by 27 inches.

NUMBER OF FORMATIONS MAPPED: 5.

98

USGS, AGS

TITLE:

Plano geológico del Valle del Río Primero (Córdoba) desde el pie de la sierra hasta La Chacra de la Merced.

PUBLISHED IN:

Guillermo Bodenbender: La cuenca del Valle del Río Primero en Córdoba, *Bol. Acad. Nacl. de Ciencias en Córdoba (República Argentina)*, Vol. 12, 1890, pp. 5-54, map opp. p. 48.

LOCATION OF AREA COVERED:

1. Northern Argentina.
2. Lat. $31^{\circ} 21'$ to $31^{\circ} 27'$ S.
Long. $64^{\circ} 5'$ to $64^{\circ} 20'$ W.

SCALE: [1 : 30,000].

SIZE: 12 by 32 inches.

NUMBER OF FORMATIONS MAPPED: 6.

J. Sa. Q.

99

AGS

TITLE:

Itinerarios geológicos de la parte sudoeste del Pié de Palo, levantados por el Doctor Richard Stappenbeck.

PUBLISHED IN:

Otto Stieglitz: Contribución a la petrografía de la Precor-dillera y del Pié de Palo, *Direcc. Gen. de Minas, Geol. e Hidrol., Ser. B, Bol. No. 10*, Minist. de Agric., Buenos Aires, 1914, map at end.

LOCATION OF AREA COVERED:

1. North-central Argentina.
2. Lat. $31^{\circ} 18'$ to $31^{\circ} 36'$ S.
Long. $68^{\circ} 12'$ to $68^{\circ} 26'$ W.

SCALE: 1 : 100,000.

SIZE: 15 by $9\frac{1}{2}$ inches.

NUMBER OF FORMATIONS MAPPED: 7.

100

USGS

TITLE:

J. C. Branner (after Hettner): Esboço geologico da região permiana de Sta. Catharina e do Rio Grande do Sul.

PUBLISHED IN:

J. C. Branner: Geologia elementar, 2nd edit., Rio de Janeiro, 1915, map on p. 319.

LOCATION OF AREA COVERED:

1. Southern coast of Brazil.
2. Lat. $28^{\circ} 12'$ to 32° S.
Long. $48^{\circ} 40'$ to $54^{\circ} 15'$ W.

SCALE: About 70 miles to 1 inch (approx. 1 : 4,400,000).

SIZE: $3\frac{1}{2}$ by 4 inches.

NUMBER OF FORMATIONS MAPPED: 5.

101 AGS

TITLE:

Plano geológico de la parte meridional de la Provincia de La Rioja y regiones limítrofes, República Argentina.

PUBLISHED IN:

✓ Guillermo Bodenbender: Constitución geológica de la parte meridional de La Rioja y regiones limítrofes, República Argentina, *Bol. Acad. Nacl. de Ciencias en Córdoba (República Argentina)*, Vol. 19, Part I, 1911, map at end.

LOCATION OF AREA COVERED:

1. Northwestern Argentina.
2. Lat. $28^{\circ} 55'$ to 32° S.
Long. $64^{\circ} 25'$ to $69^{\circ} 3'$ W.

SCALE: 1 : 750,000.

SIZE: 18 by 23 inches.

NUMBER OF FORMATIONS MAPPED: 9.

102 PAU, AGS

TITLE:

Parte meridional de la Provincia de la Rioja y regiones limítrofes.

PUBLISHED IN:

✓ Guillermo Bodenbender: Parte meridional de la Provincia de la Rioja y regiones limítrofes, *Anal. Minist. de Agric.: Sección Geol., Mineral. y Minería*, Vol. 7, No. 3, Buenos Aires, 1912, map at end.

LOCATION OF AREA COVERED:

1. Northwestern Argentina.
2. Lat. 29° to 32° S.
Long. 66° to 69° W.

SCALE: 1 : 500,000.

SIZE: 25 by 35 inches.

NUMBER OF FORMATIONS MAPPED: 9.

103

USGS, PAU, AGS

TITLE:

Bosquejo geológico e hidrogeológico de los alrededores de Villa Dolores, Prov. Córdoba.

PUBLISHED IN:

Roberto Beder: Estudios geológicos e hidrogeológicos en los alrededores de Villa Dolores (Provincia de Córdoba), *Bol. Direcc. Gen. de Minas, Geol. e Hidrol., Ser. B, Bol. No. 14*, Minist. de Agric., Buenos Aires, 1916.

LOCATION OF AREA COVERED:

1. West-central Province of Córdoba and northeastern Province of San Luis, Argentina.
2. Lat. $31^{\circ} 47'$ to $32^{\circ} 13'$ S.
Long. 65° to $65^{\circ} 35'$ W.

SCALE: [About 1 : 214,000].

SIZE: $12\frac{1}{2}$ by 9 inches.

NUMBER OF FORMATIONS MAPPED: 8.

104

USGS, AGS

TITLE:

Mapa del mineral de Paramillo.

PUBLISHED IN:

G. Avé-Lallemant: Estudios mineros en la Provincia de Mendoza, *Bol. Acad. Nacl. de Ciencias en Córdoba (República Argentina)*, Vol. 12, 1890, pp. 131-176, map at end.

LOCATION OF AREA COVERED:

1. Northwestern part of the Province of Mendoza, Argentina.
2. Lat. $32^{\circ} 25'$ to $32^{\circ} 35'$ S.
Long. 69° to $69^{\circ} 10'$ W.

SCALE: 1 : 50,000.

SIZE: $14\frac{1}{2}$ by $12\frac{1}{2}$ inches.

NUMBER OF FORMATIONS MAPPED: 16.

105 USGS, AGS

TITLE:

Sierra de Uspallata, Provincia de Mendoza, 1888.

PUBLISHED IN:

G. Avé-Lallemant: Estudios mineros en la Provincia de Mendoza, *Bol. Acad. Nacl. de Ciencias en Córdoba (República Argentina)*, Vol. 12, 1890, pp. 131-176, map opp. p. 176.

LOCATION OF AREA COVERED:

1. Northern Argentina (Province of Mendoza).
2. Lat. $32^{\circ} 20'$ to $32^{\circ} 38'$ S.
Long. $68^{\circ} 50'$ to $69^{\circ} 20'$ W.

SCALE: 1 : 200,000.

SIZE: 7 by 10 inches.

NUMBER OF FORMATIONS MAPPED: 14.

106 USGS, AGS

TITLE:

Rio Grande do Sul: Geologische Übersichtskarte.

PUBLISHED IN:

Alfred Hettner: Das südlichste Brasilien (Rio Grande do Sul). *Zeitschr. Gesell. für Erdkunde zu Berlin*, Vol. 26, 1891, pp. 85-144, map on Pl. 2.

LOCATION OF AREA COVERED:

1. Southern Brazil and northern Uruguay, between the Río Uruguay and the coast.
2. Lat. 27° to $32^{\circ} 45'$ S.
Long. 48° to 58° W.

SCALE: 1 : 7,500,000.

SIZE: $3\frac{1}{2}$ by 5 inches.

NUMBER OF FORMATIONS MAPPED: 5.

107 AGS

TITLE:

Croquis del itinerario del Dr. Franz Kühn en las Cordilleras de San Juan.

PUBLISHED IN:

Franz Kühn: Estudios geográficos en las Altas Cordilleras de San Juan, *Bol. Direcc. Gen. de Minas, Geol. e Hidrol. No. 8, Ser. B (Geología)* Minist. de Agric., Buenos Aires, 1914, map at end.

LOCATION OF AREA COVERED:

1. Andes of the southwestern part of the Province of San Juan, Argentina.
2. Lat. $31^{\circ} 25'$ to $32^{\circ} 40' S$.
Long. $69^{\circ} 20'$ to $70^{\circ} 30' W$.

SCALE: 1 : 250,000.

SIZE: 18 by $22\frac{3}{4}$ inches.

NUMBER OF FORMATIONS MAPPED: 4.

108 USGS, AGS

TITLE:

Geologische Übersichtskarte der Vorkordillera zwischen den Flüssen Mendoza und Jachal.

PUBLISHED IN:

Richard Stappenbeck: Umriss des geologischen Aufbaues der Vorkordillere zwischen den Flüssen Mendoza und Jachal, *Geol. und Palaeontol. Abhandl.*, New Series, Vol. 9, No. 5, Jena, 1911, map on Pl. 1.

LOCATION OF AREA COVERED:

1. Western Argentina, northern part.
2. Lat. 30° to $33^{\circ} S$.
Long. 68° to $70^{\circ} W$.

SCALE: 1 : 500,000.

SIZE: 12 by 30 inches.

NUMBER OF FORMATIONS MAPPED: 21.

109

PAU, AGS

TITLE:

Mapa hidrogeológico de los alrededores de la ciudad de Mendoza.

PUBLISHED IN:

Richard Stappenbeck: El agua subterranea al pie de la cordillera Mendocina y Sanjuanina, *Anal. Minist. de Agric.: Sección Geol., Mineral. y Minería*, Vol. 8, No. 5, Buenos Aires, 1913, map at end.

LOCATION OF AREA COVERED:

1. Western Argentina.
2. Lat. $32^{\circ} 38'$ to $33^{\circ} 4'$ S.
Long. $68^{\circ} 35'$ to $69^{\circ} 26'$ W.

SCALE: 1 : 200,000.

SIZE: 10 by 11 inches.

NUMBER OF FORMATIONS MAPPED: 20.

110

USGS, AGS

TITLE:

Mapa geológico de los contornos del Cerro de Cacheuta (Prov. de Mendoza).

PUBLISHED IN:

Rodolfo Zuber: Estudio geológico del Cerro de Cacheuta y sus contornos, *Bol. Acad. Nac. de Ciencias en Córdoba (República Argentina)*, Vol. 10, 1887, pp. 448-472, map at end.

LOCATION OF AREA COVERED:

1. Province of Mendoza, northern Argentina.
2. Lat. $32^{\circ} 57'$ to $33^{\circ} 12'$ S.
Long. $68^{\circ} 56'$ to $69^{\circ} 16'$ W.

SCALE: 1 : 100,000.

SIZE: 12 by 16 inches.

NUMBER OF FORMATIONS MAPPED: 8.

111

AGS

TITLE:

Geognostische Skizze des Erzgebirges von Uspallata (Westgrenze der Argentinischen Republik).

PUBLISHED IN:

H. Burmeister: Geognostische Skizze des Erzgebirges von Uspallata, *Zeitschr. für Allgemeine Erdkunde*, New Series, Vol. 4, 1858, pp. 276-292, map on Pl. 6. Berlin.

LOCATION OF AREA COVERED:

1. Northwestern Mendoza Province, Argentina.
2. Lat. 32° to $33^{\circ} 10'$ S.
Long. $68^{\circ} 40'$ to $69^{\circ} 50'$ W.

SCALE: 1 : 555,555 [*sic*].

SIZE: $7\frac{3}{4}$ by $5\frac{1}{8}$ inches.

NUMBER OF FORMATIONS MAPPED: 8.

112

PAU, AGS

TITLE:

Mapa geológico de la Sierra del Morro, Prov. de San Luis.

PUBLISHED IN:

Franco Pastore: Estudio geológico y petrográfico de la Sierra del Morro, Provincia de San Luis, *Anal. Minist. de Agric.: Sección Geol., Mineral. y Minería*, Vol. 11, No. 2. Buenos Aires, 1915, map at end.

LOCATION OF AREA COVERED:

1. Northern Argentina.
2. Lat. $33^{\circ} 7'$ to $33^{\circ} 16'$ S.
Long. $65^{\circ} 19'$ to $65^{\circ} 27'$ W.

SCALE: 1 : 25,000.

SIZE: 20 by 20 inches.

NUMBER OF FORMATIONS MAPPED: 8.

114 GEOLOGICAL MAPS OF SOUTH AMERICA

113 PAU, AGS

TITLE:

Mapa geológico de la falda oriental de la Cordillera del Plata, Provincia de Mendoza.

PUBLISHED IN:

Richard Stappenbeck: Geología de la falda oriental de la Cordillera del Plata (Provincia de Mendoza), *Anal. Minist. de Agric.: Sección Geol., Mineral. y Minería*, Vol. 12, No. 1, Buenos Aires, 1917, map at end.

LOCATION OF AREA COVERED:

1. West-central Argentina.
2. Lat. $32^{\circ} 38'$ to $33^{\circ} 33'$ S.
Long. $68^{\circ} 50'$ to $69^{\circ} 33'$ W.

SCALE: 1 : 200,000.

SIZE: 15 by 20 inches.

NUMBER OF FORMATIONS MAPPED: 27.

114 PAU, AGS

TITLE:

Argentinische Cordillere.

PUBLISHED IN:

Wilhelm Sievers: Süd- und Mittelamerika, 3rd edit., Leipzig, 1914, map opp. p. 52.

LOCATION OF AREA COVERED:

1. Andes of north-central Chile.
2. Lat. 22° to $33^{\circ} 45'$ S.
Long. $62^{\circ} 15'$ to coast at 72° W. (Minus two rectangles in northwest and southwest corners, west of $67^{\circ} 30'$ W. and north of 25° S. and south of 30° S.)

SCALE: 1 : 12,000,000.

SIZE: 3 by 4 inches.

NUMBER OF FORMATIONS MAPPED: 9.

115 USGS

TITLE:

Mappa geologico do sul do Brasil.

PUBLISHED IN:

I. C. White: Report on the coal measures and associated rocks of South Brazil (in English and Portuguese), Comissão de Estudos das Minas de Carvão de Pedra do Brasil, Rio de Janeiro, 1908.

LOCATION OF AREA COVERED:

1. West and south from Rio de Janeiro.

2. Lat. 22° to $33^{\circ} 45'$ S.

Long. 4° to 14° W. (Rio de Janeiro).

$47^{\circ} 10'$ to $57^{\circ} 10'$ W. (Greenwich).

(Only to boundary line of Brazil between the latitudes given.)

SCALE: [Approx. 1 : 2,000,000].

SIZE: 26 by 29 inches.

NUMBER OF FORMATIONS MAPPED: 2.

116 USGS, AGS

TITLE:

Luis Brackebusch: Mapa geológico del interior de la República Argentina.

PUBLISHED BY:

Instituto Geográfico de C. Hellfarth, Gotha, 1891.

LOCATION OF AREA COVERED:

1. Northwestern part of Argentina and central Chile.

2. Lat. 22° to 34° S.

Long. 61° to 73° W. (Minus area of sixth sheet south of 30° S. and west of 67° W.)

SCALE: 1 : 1,000,000.

SIZE: $46\frac{3}{4}$ by $52\frac{1}{2}$ inches (in six sheets, the first of which contains the title and the sixth probably has not been published. The outline on the index map does not include these two sheets.)

NUMBER OF FORMATIONS MAPPED: 47.

117

AGS

TITLE:

Geologische Skizze von einem Theile der Argentinischen Republik.

PUBLISHED IN:

Alfred Stelzner: Beiträge zur Geologie der Argentinischen Republik und des angrenzenden, zwischen dem 32. und 33°. S. Br. gelegenen Theiles der chilenischen Cordillere (Beiträge zur Geologie und Palaeontologie der Argentinischen Republik: I, Geologischer Theil), Cassel and Berlin, 1885, map at end.

LOCATION OF AREA COVERED:

1. Northern Argentina.
2. Lat. 25° 40' to 34° S.
Long. 61° 40' to 71° 30' W.

SCALE: 1 : 1,500,000.

SIZE: 24½ by 23¾ inches.

NUMBER OF FORMATIONS MAPPED: 15.

118

PAU, AGS

TITLE:

Materiales para el mapa geológico-económico de la República Argentina: Primera sección, Sierra de Córdoba.

PUBLISHED IN:

Guillermo Bodenbender: La Sierra de Córdoba: Constitución geológica y productos minerales de aplicacion, *Anal. Minist. de Agric.: Sección Geol., Mineral. y Minería*, Vol. 1, No. 2, Buenos Aires, 1905, map at end.

LOCATION OF AREA COVERED:

1. Central Argentina.
2. Lat. 29° to 34° S.
Long. 63° 30' to 65° 30' W.

SCALE: 1 : 1,000,000.

SIZE: 12 by 24 inches.

NUMBER OF FORMATIONS MAPPED: 10.

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119

PAU, AGS

TITLE:

Plano geológico de la Provincia de San Luis.

PUBLISHED IN:

✓ Enrique Gerth: Constitución geológica, hidrogeología y minerales de aplicación de la Provincia de San Luis, *Anal. Minist. de Agric.: Sección Geol., Mineral. y Minería*, Vol. 10, No. 2, Buenos Aires, 1914, map at end.

LOCATION OF AREA COVERED:

1. Northwestern Argentina.
2. Lat. 32° to $34^{\circ} 15'$ S.
Long. 65° to 67° W.

SCALE: 1 : 500,000.

SIZE: 18 by 22 inches.

NUMBER OF FORMATIONS MAPPED: 8.

120

USGS

TITLE:

Carte géologique et minéralogique du Chili.

PUBLISHED IN:

✓ Ignace Domeyko: Recherches sur la constitution géologique du Chili, *Annales des Mines*, Ser. 4, Vol. 9, Paris, 1846, pp. 365-540, map on Pl. 4.

LOCATION OF AREA COVERED:

1. Coast of Chile.
2. Lat. 27° to $34^{\circ} 50'$ S.
Long. $71^{\circ} 40'$ to 75° W. (Paris).
 $69^{\circ} 20'$ to $72^{\circ} 40'$ W. (Greenwich).

SCALE: About 28.7 miles to 1 inch (approx. 1 : 1,800,000).

SIZE: 7 by 18 inches.

NUMBER OF FORMATIONS MAPPED: 5.

122

AGS

2

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2.

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124 GEOLOGICAL MAPS OF SOUTH AMERICA

123

AGS

TITLE:

Esboço da carta geologica do Brasil, organizado por Orville A. Derby.

PUBLISHED IN:

O. A. Derby (E. A. Göldi transl.): *Physikalische Geographie und Geologie Brasiliens*, *Mitt. Geogr. Gesell. Jena*, Vol. 5, 1887, pp. 1-20, map on p. 15.

LOCATION OF AREA COVERED:

All of Brazil.

SCALE: [1 : 45,000,000].

SIZE: $6\frac{1}{4}$ by $3\frac{3}{4}$ inches.

NUMBER OF FORMATIONS MAPPED: 6.

124

AGS

TITLE:

Geologische Übersicht der Republik Uruguay, meist nach eigenen Beobachtungen von C. Guillemain.

PUBLISHED IN:

C. Guillemain: Der erste Versuch einer geologischen Karte von Uruguay, *Petermanns Mitt.*, Vol. 56, Part 2, 1910, p. 306, map on Pl. 48.

LOCATION OF AREA COVERED:

All of Uruguay.

SCALE: 1 : 500,000.

SIZE: $14\frac{1}{2}$ by 13 inches.

NUMBER OF FORMATIONS MAPPED: 3.

Y.D. (?)

125 AGS

TITLE:

Distrito Minero de Los Buitres: Croquis de la region petrolífera del Cerro de los Buitres y de la Quebrada Seca del Alquitrán.

PUBLISHED IN:

Juan Mena: Informe sobre el estado de la minería en los distritos mineros de Los Buitres y Valle Hermoso de la Provincia de Mendoza, *Anal. Minist. Agric.: Secc. Geol., Mineral. y Minería*, Vol. 6, No. 4, Buenos Aires, 1912.

LOCATION OF AREA COVERED:

1. West-central Province of Mendoza, Argentina.
2. Lat. 35° S.
Long. 69° 25' W.

SCALE: 1 : 40,000.

SIZE: 8½ by 8¼ inches.

NUMBER OF FORMATIONS MAPPED: 6.

126 USGS, AGS

TITLE:

J. C. Branner: Mappa geologico do Brazil.

PUBLISHED IN:

J. C. Branner: Outlines of the geology of Brazil to accompany the geologic map of Brazil, *Bull. Geol. Soc. of America*, Vol. 30, 1919, pp. 189-338, map opp. p. 189.

LOCATION OF AREA COVERED:

All of Brazil.

SCALE: 1 : 5,000,000.

SIZE: 36 by 39 inches.

NUMBER OF FORMATIONS MAPPED: 13.

127

USGS, AGS

TITLE:

Croquis géologique sommaire de la région d'études, 1899.

PUBLISHED IN:

Carl Burckhardt: Profiles géologiques transversaux de la Cordillère argentino-chilienne: Stratigraphie et tectonique (Première partie du rapport définitif sur une expédition géologique effectué par Dr. Wehrli et Dr. Carl Burckhardt), *Anal. Museo de La Plata: Sección Geol. y Mineral.*, Vol. 2, La Plata, 1900, map on Pl. 32.

LOCATION OF AREA COVERED:

1. Western Argentina and Chile.
2. Lat. $34^{\circ} 30'$ to 36° S.
Long. $69^{\circ} 30'$ to $71^{\circ} 20'$ W.

SCALE: 1 : 1,000,000.

SIZE: 6 by 7 inches.

NUMBER OF FORMATIONS MAPPED: 31.

128

PAU, AGS

TITLE:

Mapa topográfico y geológico de la Sierra Baya (Provincia de Buenos Aires).

PUBLISHED IN:

Juan José Nágera: La Sierra Baya: Estudio geológico y económico, *Anal. Minist. de Agric.: Sección Geol., Mineral. y Minería*, Vol. 14, No. 1, Buenos Aires, 1919, map at end.

LOCATION OF AREA COVERED:

1. Northeast of Bahía Blanca, Argentina.
2. Lat. $36^{\circ} 52'$ to 37° S.
Long. 60° to $60^{\circ} 12'$ W.

SCALE: [Approx. 1 : 50,000].

SIZE: 12 by 16 inches.

NUMBER OF FORMATIONS MAPPED: 6.

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129

AGS

TITLE:

Los valles de Chalpaco y Quehué, Pampa Central.

PUBLISHED IN:

Richard Stappenbeck: Investigaciones hidrogeológicas de los valles de Chalpaco y Quehué y sus alrededores, *Direcc. Gen. de Minas, Geol. e Hidrol., Ser. B, Bol. No. 4*, Minist. de Agric., Buenos Aires, 1913, map at end.

LOCATION OF AREA COVERED:

1. Central part of the Gobernación de La Pampa, Argentina.
2. Lat. $36^{\circ} 30'$ to $37^{\circ} 30'$ S.
Long. $64^{\circ} 10'$ to $65^{\circ} 30'$ W.

SCALE: 1 : 500,000.

SIZE: 8 by 10 inches.

NUMBER OF FORMATIONS MAPPED: 4.

130

USGS

TITLE:

Carte géologique des environs de la Concepción.

PUBLISHED IN:

✓ Ignace Domeyko: Mémoire sur la composition géologique du Chili, à la latitude de Concepción, *Annales des Mines*, Ser. 4, Vol. 14, Paris, 1848, pp. 163-185, map on Pl. 3, Fig. 1.

LOCATION OF AREA COVERED:

1. South-central coast of Chile.
2. Lat. $36^{\circ} 30'$ to $37^{\circ} 15'$ S.
Long. $72^{\circ} 54'$ to $73^{\circ} 20'$ W.

SCALE: [Approx. 1 : 2,000,000].

SIZE: 1 by $2\frac{1}{2}$ inches.

NUMBER OF FORMATIONS MAPPED: 2.

181

AGS

TITLE:

- A. Schauplatz des Erdbebens vom 20. Februar 1835 (nach Concha i Toro).
 B. Théâtre du tremblement de terre du 20 février 1835 (d'après Concha i Toro).
 C. Scene of the earthquake of February 20, 1835 (after Concha i Toro).

PUBLISHED IN:

- A. Eduard Suess: Das Antiltz der Erde, Vol. 1, Vienna, 3rd edition, 1908, map on p. 129.
 B. Eduard Suess (Emmanuel de Margerie, transl.): La face de la terre, Vol. 1, Paris, 1897, map on p. 129.
 C. Eduard Suess (H. B. C. Sollas, transl.): The face of the earth, Vol. 1, Oxford, 1904.

LOCATION OF AREA COVERED:

1. Arauco Bay region, near Concepción, Chile.
 2. Lat. $36^{\circ} 35'$ to $37^{\circ} 20'$ S.
 Long. $72^{\circ} 50'$ to $73^{\circ} 50'$ W.

SCALE: A. and C. [About 1 : 700,000].

B. About 1 : 1,000,000.

SIZE: A. and C. $4\frac{1}{2}$ by 5 inches.

B. $3\frac{1}{8}$ by $3\frac{1}{2}$ inches.

NUMBER OF FORMATIONS MAPPED: 3.

182

AGS

TITLE:

None. [Geological map of Pilun-Challa River basin, Neuquén Territory, Argentina.]

PUBLISHED IN:

Pablo Groeber: Vestigios de un yacimiento petrolífero en Pilun-Challa (Territorio del Neuquén), *Direcc. Gen. de Minas, Geol. e Hidrol., Ser. F, Bol. No. 4*, pp. 39-42, Minist. de Agric., Buenos Aires, 1921, map on Pl. 2.

LOCATION OF AREA COVERED:

1. West-central Neuquén Territory, Argentina.
 2. About lat. $37^{\circ} 40'$ S.
 " long. 71° W.

SCALE: 1 : 100,000.

SIZE: $3\frac{1}{2}$ by 4 inches.

NUMBER OF FORMATIONS MAPPED: 6.

133

AGS

TITLE:

Bosquejo topográfico y geológico de la región al sudeste de Las Lajas.

PUBLISHED IN:

Pablo Groeber: Algunas observaciones referentes a la estratigrafía y tectónica del jurásico al sud del Río Agrio cerca de Las Lajas (Territorio del Neuquén), *Direcc. Gen. de Minas, Geol. e Hidrol., Ser. F, Bol. No. 4*, pp. 13-17, Minist. de Agric., Buenos Aires, 1921, map on Pl. 1.

LOCATION OF AREA COVERED:

1. West-central Neuquén Territory, Argentina.
2. Lat. $38^{\circ} 30' S$.
Long. $70^{\circ} 23' W$.

SCALE: 1 : 500,000.

SIZE: About 2 by 3 inches.

NUMBER OF FORMATIONS MAPPED: 9.

134

AGS

TITLE:

Carta geologica della Cuenca Vidal.

PUBLISHED IN:

G. Rovereto: Studi di geomorfologia argentina: III, La valle del Rio Negro, *Boll. Soc. Geol. Italiana*, Vol. 31, 1912, pp. 181-237, and Vol. 32, 1913, pp. 101-142, map on p. 107 of Vol. 32.

LOCATION OF AREA COVERED:

1. About 25 kms. northwest of the junction of the Neuquén and Limay Rivers, Neuquén Territory, Argentina.
2. Lat. $38^{\circ} 55' S$.
Long. $68^{\circ} 10' W$.

SCALE: [1 : 200,000].

SIZE: $3\frac{1}{2}$ by 4 inches.

NUMBER OF FORMATIONS MAPPED: 6.

y.R. (?)

135

AGS

TITLE:

Distribution des conglomérats et grès suprajurassiques dans la Cordillère.

PUBLISHED IN:

Carl Burckhardt: Traces géologiques d'un ancien continent pacifique, *Rev. Museo de La Plata*, Vol. 10, 1902, pp. 179-192, map at end. La Plata.

LOCATION OF AREA COVERED:

1. Cordillera of the Andes from —
2. Lat. 32° to 38° S.
Long. 66° to 75° W.

SCALE: 1 : 7,000,000.

SIZE: $4\frac{5}{8}$ by 3 inches.

NUMBER OF FORMATIONS MAPPED: 2.

136

PAU, AGS

TITLE:

Falda noreste de la Sierra de la Ventana entre el Cerro de la Ventana y el Río Sauce Grande.

PUBLISHED IN:

Juan Keidel: La geología de las 'sierras de la Provincia de Buenos Aires y sus relaciones con las montañas de Sud Africa y los Andes, *Anal. Minist. de Agric.: Sección Geol., Mineral. y Minería*, Vol. 11, No. 3, Buenos Aires, 1916, map at end.

LOCATION OF AREA COVERED:

1. Near Bahía Blanca on coast.
2. Lat. $38^{\circ} 56'$ to 39° S.
Long. $61^{\circ} 30'$ to $61^{\circ} 40'$ W.

SCALE: 1 : 25,000.

SIZE: 22 by 15 inches.

NUMBER OF FORMATIONS MAPPED: 9.

138 GEOLOGICAL MAPS OF SOUTH AMERICA

137 USGS, AGS

TITLE:

R. Wichmann: Mapa geológico-económico de la República Argentina, Hoja 35m (Bahía Blanca): Geología.

PUBLISHED BY:

Ministerio de Agricultura: Dirección General de Minas, Geología e Hidrología, [Buenos Aires], 1916.

LOCATION OF AREA COVERED:

1. East-central coast of Argentina.
2. Lat. $38^{\circ} 30'$ to 39° S.
Long. $61^{\circ} 45'$ to $62^{\circ} 30'$ W.

SCALE: 1 : 200,000.

SIZE: 11 by $12\frac{3}{4}$ inches.

NUMBER OF FORMATIONS MAPPED: 5.

138 PAU, AGS

TITLE:

Croquis topográfico y geológico de la parte central y oriental del Territorio del Neuquén.

PUBLISHED IN:

A. Windhausen: Contribución al conocimiento geológico de los Territorios del Río Negro y Neuquén, *Anal. Minist. de Agric.: Sección Geol., Mineral. y Minería*, Vol. 10, No. 1, Buenos Aires, 1914, map at end.

LOCATION OF AREA COVERED:

1. West-central Argentina.
2. Lat. $37^{\circ} 30'$ to $39^{\circ} 30'$ S.
Long. $67^{\circ} 30'$ to $70^{\circ} 30'$ W.

SCALE: 1 : 1,000,000.

SIZE: 9 by 12 inches.

NUMBER OF FORMATIONS MAPPED: 9.

139

USGS, AGS

TITLE:

Geologische Karte der Provinz Buenos Aires.

PUBLISHED IN:

Rudolf Hauthal: Beiträge zur Geologie der Argentinischen Provinz Buenos Aires, *Petermanns Mitt.*, Vol. 50, 1904, pp. 83-95 and 112-117, map on Pl. 6. Gotha.

LOCATION OF AREA COVERED:

1. Province of Buenos Aires.
2. Lat. 33° to 40° S.
Long. $56^{\circ} 30'$ to $63^{\circ} 30'$ W.

SCALE: 1 : 3,500,000.

SIZE: 8 by 10 inches.

NUMBER OF FORMATIONS MAPPED: 12.

140

AGS

TITLE:

Croquis topographique et géologique de la région du Lac Lacar.

PUBLISHED IN:

Leo Wehrli: Rapport préliminaire sur mon expédition géologique dans la Cordillère argentino-chilienne, *Rev. Museo de La Plata*, Vol. 9, 1899, pp. 223-252, map at end.

LOCATION OF AREA COVERED:

1. Lake Lacar region, Argentina.
2. Lat. $40^{\circ} 5'$ to $40^{\circ} 10'$ S.
Long. 71° to $71^{\circ} 35'$ W.

SCALE: 1 : 100,000.

SIZE: $9\frac{1}{2}$ by 20 inches.

NUMBER OF FORMATIONS MAPPED: 8.

G. A.

G. W.

141

AGS

TITLE:

Plano topográfico y geológico de la Península de San Blas (Jabalí), Partido de Patagones.

PUBLISHED IN:

Lutz Witte: Estudios geológicos de la región de San Blas, *Rev. del Museo de La Plata*, Vol. 24, Part I, Buenos Aires, 1916, map on Pls. 26 and 27.

LOCATION OF AREA COVERED:

1. Region south of Bahía San Blas, Neuquén Territory, Argentina.
2. Lat. $40^{\circ} 30' S$.
Long. $62^{\circ} 10' W$.

SCALE: 1 : 10,000.

SIZE: $10\frac{1}{2}$ by 52 inches (in two sheets).

NUMBER OF FORMATIONS MAPPED: 9.

142

AGS

TITLE:

Plano topográfico y geológico de la región Bahía San Blas, Partido Patagones.

PUBLISHED IN:

Lutz Witte: Estudios geológicos de la región de San Blas, *Rev. Museo de La Plata*, Vol. 24, Part I, Buenos Aires, 1916, map on Pl. 24.

LOCATION OF AREA COVERED:

1. Region north of Bahía San Blas, Argentina.
2. Lat. $40^{\circ} 25'$ to $40^{\circ} 40' S$.
Long. $62^{\circ} 10'$ to $62^{\circ} 25' W$.

SCALE: [1 : 75,000].

SIZE: $16\frac{1}{2}$ by $22\frac{1}{2}$ inches.

NUMBER OF FORMATIONS MAPPED: 13.

144 GEOLOGICAL MAPS OF SOUTH AMERICA

143 USGS, AGS

TITLE:

Región de los Bajos Valcheta y Gualichu.

PUBLISHED IN:

Ricardo Wichmann: Contribución a la geología de la región comprendido entre el Río Negro y Arroyo Valcheta, *Anal. Minist. de Agric.: Sección de Geol., Mineral. y Minería*, Vol. 13, No. 4, Buenos Aires, 1919, inset [on Pl. 9] at end.

LOCATION OF AREA COVERED:

1. Central coast of Argentina in the vicinity of San Antonio del Oeste.
2. Lat. $40^{\circ} 15'$ to $40^{\circ} 50' S.$
Long. $64^{\circ} 40'$ to $66^{\circ} 40' W.$

SCALE: 1 : 500,000.

SIZE: $10\frac{3}{4}$ by 7 inches.

NUMBER OF FORMATIONS MAPPED: 14.

144 AGS

TITLE:

Carta geologica della riva destra del F. Limay.

PUBLISHED IN:

G. Rovereto: Studi di geomorfologia argentina: III, La valle del Río Negro, *Boll. Soc. Geol. Italiana*, Vol. 31, 1912, pp. 181-237, and Vol. 32, 1913, pp. 101-142, map on page 213 of Vol. 31.

LOCATION OF AREA COVERED:

1. Western Río Negro Territory, Argentina.
2. Lat. $38^{\circ} 50'$ to $41^{\circ} 10' S.$
Long. $67^{\circ} 10'$ to $71^{\circ} 15' W.$

SCALE: [1 : 3,200,000].

SIZE: $3\frac{3}{4}$ by 4 inches.

NUMBER OF FORMATIONS MAPPED: 7.

G.R.

Vol. I

145

AGS

TITLE:

Geologische Übersichts-Karte des nordwestlichen Limay-Gebietes aufgenommen im J. 1889. Kartographische Grundlage nach Rohde (1886), Duclout und eigenen Vermessungen.

PUBLISHED IN:

Hugo Zapalowicz: Das Rio Negro-Gebiet in Patagonien, *Denkschr. K. Akad. Wiss.: Mathem.-Naturw. Klasse*, Vol. 60, 1893, pp. 531-564, map opp. p. 564. Vienna.

LOCATION OF AREA COVERED:

1. Southwestern Neuquén Territory, Argentina.
2. Lat. $38^{\circ} 55'$ to $41^{\circ} 20'$.
Long. 67° to $72^{\circ} 55'$.

SCALE: 1 : 1,270,000.

SIZE: $8\frac{3}{4}$ by $15\frac{3}{4}$ inches.

NUMBER OF FORMATIONS MAPPED: 5.

146

USGS, AGS

TITLE:

Bosquejo geológico de la región comprendida entre Bahía Blanca, Neuquén, San Antonio del O., y el Atlántico.

PUBLISHED IN:

Ricardo Wichmann: Contribución á la geología de la región comprendida entre Río Negro y Arroyo Valcheta, *Anal. Minist. de Agric.: Secc. Geol., Mineral. y Minería*, Vol. 13, No. 4, Buenos Aires, 1919, map [on Pl. 8] at end.

LOCATION OF AREA COVERED:

1. Eastern Río Negro Province, Argentina.
2. Lat. $38^{\circ} 15'$ to $41^{\circ} 40'$ S.
Long. $61^{\circ} 45'$ to $68^{\circ} 30'$ W.

SCALE: 1 : 1,000,000.

SIZE: 22 by 16 inches.

NUMBER OF FORMATIONS MAPPED: 20.

148 GEOLOGICAL MAPS OF SOUTH AMERICA

147 USGS

TITLE:

Carte géologique de la région des Andes entre 22° et 42° Sud.

PUBLISHED IN:

A. Pissis: Mémoire sur la constitution géologique de la chaîne des Andes entre le 16e et le 53e degré de latitude sud, *Annales des Mines*, Ser. 7, Vol. 3, pp. 402-426, Paris, 1873, map on Pl. 9.

LOCATION OF AREA COVERED:

1. Northern portion of Chile,

2. Lat. 22° to 42° S.

Long. 69° to 77° W. (Paris).

66° 40' to 74° 40' W. (Greenwich).

SCALE: 1 : 5,000,000.

SIZE: 7 by 17 inches.

NUMBER OF FORMATIONS MAPPED: 12.

148 AGS

TITLE:

Geologische Skizze der Kordilleren zwischen 41° u. 42° S.

PUBLISHED IN:

Hans Steffen: Westpatagonien: Die Patagonischen Kordilleren und ihre Randgebiete, 2 vols., Berlin, 1919, map in Vol. I, Pl. I, opp. p. 112.

LOCATION OF AREA COVERED:

1. Region south of Lakes Llanquihue and Nahuel Huapi.

2. Lat. 40° 55' to 42° 5' S.

Long. 71° to 73° W.

SCALE: 1 : 1,000,000.

SIZE: 8½ by 10 inches.

NUMBER OF FORMATIONS MAPPED: 5.

149

USGS

TITLE:

Carte géologique d'une partie de la République Argentine comprenant les Provinces de Santa Fé, d'Entre Rios, de Buenos Aires, et la partie septentrionale de la Patagonie.

PUBLISHED IN:

Alcide d'Orbigny: Voyage dans l'Amérique méridionale (le Brésil, l'Uruguay, la République Argentine, la Patagonie, Chili, Bolivia, Pérou), exécuté pendant les années 1826-1833, Vol. 3, Part 3, Atlas de la Géologie, map No. 1, Paris, 1843.

LOCATION OF AREA COVERED:

1. Central Argentina.
2. Lat. 31° to $42^{\circ} 40'$ S.
Long. 58° to 72° W. (Paris).
 $55^{\circ} 40'$ to $69^{\circ} 40'$ W. (Greenwich).

SCALE: 53.8 miles to 1 inch (approx. 1 : 3,400,000).

SIZE: 18 by 19 inches.

NUMBER OF FORMATIONS MAPPED: 7.

150

AGS

TITLE:

Carte physique de la Confédération Argentine.

PUBLISHED IN:

V. Martin de Moussy: Description géographique et statistique de la Confédération Argentine, 2nd edit., atlas, Paris, 1873, Pl. 20.

LOCATION OF AREA COVERED:

1. Territory occupied by the Argentine Confederation of 1866.
2. Lat. 17° to 43° S.
Long. 54° to $76^{\circ} 20'$ W. (Paris).
 $51^{\circ} 40'$ to 74° (Greenwich).

SCALE: [About 1 : 5,500,000].

SIZE: $15\frac{1}{2}$ by 20 inches.

NUMBER OF FORMATIONS MAPPED: 16.

J. A. O.

151 USGS, AGS

TITLE:

General map of northern Patagonia.

PUBLISHED IN:

Bailey Willis: Forty-first parallel survey of Argentina, *Compte Rendu XII, Congrès Géol. Internat., Toronto, 1913*, Ottawa, 1914, map opp. p. 732.

LOCATION OF AREA COVERED:

1. Section of southwestern Argentina.
2. Lat. 41° to $43^{\circ} 45'$ S.
Long. $70^{\circ} 40'$ to $72^{\circ} 20'$ W.

SCALE: 1 : 1,500,000.

SIZE: 16 by 27 inches.

NUMBER OF FORMATIONS MAPPED: Faulting and Pliocene drainage shown.

152 PAU, AGS

TITLE:

Material para el mapa geológico-económico de la República Argentina: Tercera sección, Parte sudeste del Territorio del Chubut.

PUBLISHED IN:

Richard Stappenbeck: Informe preliminar relativo á la parte sudeste del Territorio del Chubut y al análisis químico del petróleo de Comodoro Rivadavia, *Anal. Minist. de Agric.: Sección Geol., Mineral. y Minería*, Vol. 4, No. 1, Buenos Aires, 1909, map at end.

LOCATION OF AREA COVERED:

1. Coast south of Buenos Aires.
2. Lat. 45° to 46° S.
Long. 67° to $69^{\circ} 30'$ W.

SCALE: 1 : 500,000.

SIZE: 15 by 10 inches.

NUMBER OF FORMATIONS MAPPED: 8.

154 GEOLOGICAL MAPS OF SOUTH AMERICA

153

AGS

TITLE:

Geologische Übersichtsskizze des südöstlichen Chubuts.

PUBLISHED IN:

Richard Stappenbeck: Geologische Beschreibung der Umgebung des Sees Musters in Patagonien, *Sitzungsber. Mathem.-Naturw. Klasse K. Akad. Wiss.*, Vol. 117, Section I, 1908, pp. 1243-1249, map opp. p. 1250. Vienna.

LOCATION OF AREA COVERED:

1. Patagonia.
2. Lat. $44^{\circ} 55'$ to $46^{\circ} 4' S$.
Long. $67^{\circ} 0'$ to $69^{\circ} 35' W$.

SCALE: 1 : 500,000.

SIZE: $10\frac{1}{2}$ by $15\frac{1}{2}$ inches.

NUMBER OF FORMATIONS MAPPED: 9.

154

AGS

TITLE:

Geologischer Querschnitt durch die Kordilleren am Río Baker und Lago Cochrane (47° - $47^{\circ} 40'$).

PUBLISHED IN:

Hans Steffen: Westpatagonien: Die Patagonischen Kordilleren und ihre Randgebiete, 2 vols., Berlin, 1919, map in Vol. 2, Pl. 1, opp. p. 582.

LOCATION OF AREA COVERED:

1. Río Baker from Lago Puereydón to the Pacific, western Patagonia.
2. Lat. $47^{\circ} 10'$ to $47^{\circ} 45' S$.
Long. 72° to $73^{\circ} 40' W$.

SCALE: 1 : 500,000.

SIZE: 13 by $11\frac{3}{8}$ inches.

NUMBER OF FORMATIONS MAPPED: 5.

155

AGS

TITLE:

None. [Geological map of the Lago San Martín region, Santa Cruz Territory, Argentina.]

PUBLISHED IN:

Guido Bonarelli y J. J. Nágera: Observaciones geológicas en la inmediaciones del Lago San Martín (Territorio de Santa Cruz), *Direcc. Gen. de Minas, Geol. e Hidrol., Ser. B, Bol. No. 27*, Minist. de Agric., Buenos Aires, 1921, map on Pl. I.

LOCATION OF AREA COVERED:

1. Patagonia.
2. Lat. $48^{\circ} 30'$ to $49^{\circ} 20'$ S.
Long. $71^{\circ} 45'$ to $72^{\circ} 30'$ W.

SCALE: [1 : 280,000].

SIZE: 13 by $7\frac{1}{4}$ inches.

NUMBER OF FORMATIONS MAPPED: 13.

156

AGS

TITLE:

Andes de Patagonie: Carte géologique de la région comprise entre le Lago Argentino et le Seno de la Ultima Esperanza, d'après R. Hauthal (*Berichte der Naturforsch. Gesellsch. zu Freiburg i. Br.*, XV, 1905, pl. 1).

PUBLISHED IN:

Eduard Suess (Emmanuel de Margerie, transl.): La face de la terre, Vol. 3, Part 3, Paris, 1913, map on p. 1335.

LOCATION OF AREA COVERED:

1. Patagonian Andes.
2. Lat. $50^{\circ} 20'$ to $51^{\circ} 55'$ S.
Long. $71^{\circ} 40'$ to $73^{\circ} 20'$ W.

SCALE: [1 : 1,000,000].

SIZE: $4\frac{3}{4}$ by $7\frac{1}{2}$ inches.

NUMBER OF FORMATIONS MAPPED: 7.

G. A.

✓ 157

USGS, AGS

TITLE:

Falkland Islands.

PUBLISHED IN:

T. G. Halle: On the geological structure and history of the Falkland Islands, *Bull. Geol. Instn. Univ. of Upsala*, Vol. 11, 1912, pp. 115-229, map on Pl. 10.

LOCATION OF AREA COVERED:

All of Falkland Islands.

SCALE: [1 : 950,000].

SIZE: 7 by 11 inches.

NUMBER OF FORMATIONS MAPPED: 4.

158

PAU

TITLE:

Mapa jeológico de Magallanes Austral, República de Chile.

PUBLISHED IN:

✓ Johannes Felsch: Informe preliminar sobre los reconocimientos jeológicos de los terrenos petrolíferos de Magallanes del Sur, *Bol. Soc. Nacl. de Minería*, Ser. 3, Vol. 28, Santiago, Chile, 1916, pp. 214-223 and 309-314, map opp. p. 314.

LOCATION OF AREA COVERED:

1. Southern end of Chile.
2. Lat. 52° 20' to 54° S.
Long. 69° to 72° 15' W.

SCALE: 1 : 250,000.

SIZE: 33 by 30 inches (in two sheets).

NUMBER OF FORMATIONS MAPPED: 22.

159

PAU

TITLE:

Croquis jeológico de los alrededores de Punta Arenas i de la parte noroeste de la Tierra del Fuego.

PUBLISHED IN:

Johannes Felsch: Informe sobre el reconocimiento jeológico de los alrededores de Punta Arenas i de la parte noroeste de la Tierra del Fuego, con el objeto de encontrar posibles yacimientos de petróleo, *Bol. Soc. Nac. de Minería*, Ser. 3, Vol. 24, Santiago, Chile, 1912, pp. 433-446 and 481-500, map opp. p. 496.

LOCATION OF AREA COVERED:

1. Tierra del Fuego.
2. Lat. $52^{\circ} 50'$ to 54° S.
Long. $69^{\circ} 10'$ to $71^{\circ} 20'$ W.

SCALE: 1 : 500,000.

SIZE: 10 by 12 inches.

NUMBER OF FORMATIONS MAPPED: 7.

160

AGS

TITLE:

Otto Nordenskjöld: Geological map of the Magellan Territories on the basis of existing printed maps and with inclusion of particulars obtained from various sources, constructed by — from a survey and observations by the Swedish Expedition in 1895-97.

PUBLISHED IN:

Otto Nordenskjöld: Explanatory notes to accompany the geological map of the Magellan Territories, *Svenska Expeditionen till Magellansländerna: Wiss. Ergebnisse der Schwedischen Expedition nach den Magellansländern, 1895-1897*, Vol. 1: Geologie, Geographie und Anthropologie, No. 3, map opp. p. 86.

LOCATION OF AREA COVERED:

1. Southernmost South America.
2. Lat. $49^{\circ} 50'$ to $56^{\circ} 20'$ S.
Long. $63^{\circ} 20'$ to $76^{\circ} 40'$ W.

SCALE: 1 : 1,500,000.

SIZE: $19\frac{1}{4}$ by $20\frac{3}{4}$ inches.

NUMBER OF FORMATIONS MAPPED: 10.

T. Sa. n.

161

PAU, AGS

TITLE:

Bosquejo geológico de la Tierra del Fuego.

PUBLISHED IN:

Guido Bonarelli: Tierra del Fuego y sus turberas, *Anal. Minist. de Agric.: Sección Geol., Mineral. y Minería*, Vol. 12, Buenos Aires, 1917, No. 3, map at end.

LOCATION OF AREA COVERED:

1. Extreme tip of South America.
2. Lat. 52° to 56° S.
Long. 64° to 74° W.

SCALE: 1 : 2,000,000.

SIZE: 9 by 12 inches.

NUMBER OF FORMATIONS MAPPED: 18.

162

USGS, AGS

TITLE:

Geologische Übersichtskarte der Patagonischen Cordillera.

PUBLISHED IN:

P. D. Quensel: Geologisch-petrographische Studien in der patagonischen Cordillera, *Bull. Geol. Instn. Univ. of Upsala*, Vol. 11, 1910, pp. 1-114, map on Pl. 5.

LOCATION OF AREA COVERED:

1. Southern tip and southwestern coast of South America.
2. Lat. 41° to 56° S.
Long. $63^{\circ} 30'$ to 76° W. (Minus small rectangle out of northeastern corner as follows: lat. 41° to 51° S.; long. $63^{\circ} 30'$ to 69° W.)

SCALE: 1 : 3,000,000.

SIZE: 10 by 22 inches.

NUMBER OF FORMATIONS MAPPED: 13.

163 USGS, AGS

TITLE:

Bosquejo de las grandes unidades geológicas que componen el territorio argentino.

PUBLISHED IN:

- A. E. M. Hermitte: Área de distribución de los yacimientos petrolíferos y estado actual de su explotación en la Argentina, *Proc. Second Pan Amer. Congr., Washington, U. S. A., Dec. 27, 1915, to Jan. 8, 1916*, Vol. 8, Washington, D. C., 1917, pp. 114-129, map on p. 115 (AGS).
- B. Enrique Hermitte: La geología y minería argentinas en 1914, República Argentina: Tercer Censo Nacional (Levantado el 1° de Junio de 1914), Vol. 7, Censo de las industrias, Buenos Aires, 1917, pp. 407-494, map opp. p. 408 (USGS, AGS).

LOCATION OF AREA COVERED:

1. Argentina, Paraguay, Uruguay, and Chile.
2. Lat. $21^{\circ} 30'$ to $57^{\circ} 3' S$.
Long. 53° to $72^{\circ} 30' W$.

SCALE: A. [1 : 23,000,000].

B. [1 : 20,000,000].

SIZE: A. $3\frac{3}{8}$ by $6\frac{3}{8}$ inches.

B. $4\frac{3}{8}$ by $7\frac{5}{8}$ inches.

NUMBER OF FORMATIONS MAPPED: 6.

164 USGS, AGS

TITLE:

(G. Steinmann): Süd-Amerika.

PUBLISHED IN:

Berghaus' Physikalischer Atlas: Abteilung I: Geologie, Pl. 14, 3rd edit., Gotha, 1892.

LOCATION OF AREA COVERED:

All of South America.

SCALE: 1 : 30,000,000.

SIZE: 13 by 15 inches.

NUMBER OF FORMATIONS MAPPED: 12.

Y. A. (B)

165

USGS

TITLE:

Carte de l'Amérique méridionale indiquant ses différentes époques géologiques.

PUBLISHED IN:

Alcide d'Orbigny: Voyage dans l'Amérique méridionale (le Brésil, l'Uruguay, la République Argentine, la Patagonie, Chili, Bolivie, Pérou) exécuté pendant les années 1826-1833, Vol. 3, Part 3, Atlas de la Géologie, map No. 10, Paris, 1843.

LOCATION OF AREA COVERED:

All of South America.

SCALE: About 296 miles to 1 inch (approx. 1 : 18,750,000).

SIZE: 11 by 18 inches.

NUMBER OF FORMATIONS MAPPED: 7.

166

PAU, AGS

TITLE:

- A. Grandes divisions géologiques de l'Amérique du Sud.
- B. Main geological divisions of South America.

PUBLISHED IN:

- A. Elisée Reclus: Nouvelle géographie universelle, Vol. 18: Amérique du Sud: Les régions andines, Paris, 1893, map on p. 35. (AGS)
- B. Elisée Reclus: The earth and its inhabitants: South America, edited by A. H. Keane, Vol. 2, New York, 1894, map on p. 28. (PAU)

LOCATION OF AREA COVERED:

All of South America.

SCALE: 1 : 55,000,000.

SIZE: 4 by 5 inches.

NUMBER OF FORMATIONS MAPPED: 3.

T. A. O.

Y. R.

168 GEOLOGICAL MAPS OF SOUTH AMERICA

167 USGS, AGS

✓ TITLE:

Geologische Übersichts-Karte von Süd-Amerika, nach verschiedenen Quellen zusammengestellt.

PUBLISHED IN:

Franz Foetterle: Die Geologie von Süd-Amerika, *Petermanns Mitt.*, Vol. 2, 1856, pp. 187-192, map on Pl. 11.

LOCATION OF AREA COVERED:

All of South America.

SCALE: 1 : 25,000,000.

SIZE: 9 by 12 inches.

NUMBER OF FORMATIONS MAPPED: 14.

168 AGS

✓ TITLE:

Carte physique de l'Amérique du Sud.

PUBLISHED IN:

V. Martin de Moussy: Description géographique et statistique de la Confédération Argentine, 2nd edit., atlas, Paris, 1873, Pl. 19.

LOCATION OF AREA COVERED:

All of South America.

SCALE: [About 1 : 17,000,000].

SIZE: 15½ by 19½ inches.

NUMBER OF FORMATIONS MAPPED: 11.

170 GEOLOGICAL MAPS OF SOUTH AMERICA

169 AGS

TITLE:

Geologische Karte von Süd- und Mittel-Amerika.

PUBLISHED IN:

✓ Wilhelm Sievers: Süd- und Mittel-Amerika, 3rd edit.,
Leipzig, 1914, map opp. p. 52.

LOCATION OF AREA COVERED:

South and Central America.

SCALE: 1 : 50,000,000.

SIZE: 8¾ by 6¾ inches.

NUMBER OF FORMATIONS MAPPED: 6.

170 AGS

TITLE:

J. G. Bartholomew: Geological sketch map of the world,
after Berghaus, Marcou, and other authorities.

✓ PUBLISHED IN:

James Geikie: The evolution of climate, *Scottish Geogr. Mag.*, Vol. 6, 1890, pp. 57-77, second map opp. p. 112.

LOCATION OF AREA COVERED:

All of South America (on map of world).

SCALE: Equatorial scale about 1 : 100,000,000 (Gall's projection).

SIZE: 16 by 11½ inches.

NUMBER OF FORMATIONS MAPPED: 7.

APPENDIX
(MAPS NOT SEEN)

Y. S.

1a*

TITLE:

[Geological map of Curaçao, Aruba, and Buenayre.]

PUBLISHED IN:

K. Martin: Geologische Studien über Niederlaendisch West Indien, auf Grund eigener Untersuchungsreisen, Leiden, 1888.

REFERENCE:

Suess-de Margerie, Vol. 1, p. 681, footnote 2; Vol. 2, p. 788, footnote 1 from p. 787; Vol. 3, p. 1293, footnote 3. Two other maps are said to accompany this work, one of which may be the map listed above under 16, which, in the table of contents of the periodical in which it is published, is stated to be "taken from Professor K. Martin's work on the [Dutch] West Indies."

2a

TITLE:

Geognostische Karte des nordöstlichen Venezuela.

PUBLISHED IN:

Hermann Karsten: Beitrag zur Kenntniss der Gesteine des nördlichen Venezuela, *Zeitschr. Deutschen Geol. Gesell.*, Vol. 2, 1850, Pl. 11. Berlin.

REFERENCE:

Marcou, No. 840, p. 151. Sievers says (p. 125 of publication listed above under 7): "Karsten's map of eastern Venezuela is in general correct; as a rule his maps of the eastern part of Venezuela are more correct than his maps of other parts of the country." (Translation.)

*The numbers indicate the approximate position of the map if inserted in the catalogue. For full titles of references see "Explanatory Note," p. iv.

23a

TITLE:

[Geological map of British Guiana.]

PUBLISHED IN:

C. Barrington Brown and J. G. Sawkins: Reports on the physical, descriptive, and economic geology of British Guiana, London, 1875.

REFERENCE:

Suess-de Margerie, Vol. 1, p. 681, footnote 2.

29a

TITLE:

Geologische Kartenskizze der nördlichen Küste von Peru.

PUBLISHED IN:

Neues Jahrbuch für Mineralog., Geol., und Paläontologie,
Suppl. Vol. 12, 1899, map on Pl. 15.

SCALE: 1 : 1,800,000.

REFERENCE:

AGS list, Peru, 1899.

32a

TITLE:

Geologische Übersichtskarte von S. W. Ecuador.

PUBLISHED IN:

Neues Jahrbuch für Mineralog., Geol., und Paläontologie,
Suppl. Vol. 4, 1886, map on Pl. 7.

REFERENCE:

AGS list, Ecuador, 1886.

33a

TITLE:

Columbien zur Zeit der Kreideformation.

PUBLISHED IN:

Hermann Karsten: Die geognostischen Verhältnisse Neu-Granadas, *Verhandl. Gesell. Deutscher Naturforscher*, 32nd year, Vienna, 1856.

REFERENCE:

Marcou, No. 844, p. 152: "Black etching. This map is on the same sheet as the one previously cited" [i. e. our 33b].

33b

TITLE:

Karte der Verbreitung der geognostischen Formationen in Columbien.

PUBLISHED IN:

Hermann Karsten: Die geognostischen Verhältnisse Neu-Granadas, *Verhandl. Gesell. Deutscher Naturforscher*, 32nd Year, Vienna, 1856.

REFERENCE:

Marcou, No. 843, p. 152; Suess-de Margerie, Vol. 1, p. 714, footnote 1. Sievers says (p. 125 of publication listed above under 7): "Only a rough sketch map, often incorrect in detail . . . Karsten's second map [our No. 33] is substantially a reprint of the present map but considerably improved." (Translation.)

40a

TITLE:

[Geological map of Lima and environs?]

PUBLISHED IN:

C. I. Lisson: Contribución á la geología de Lima y sus alrededores, Lima, 1907.

REFERENCE:

Suess-de Margerie, Vol. 3, p. 1305, footnote 1.

52a**TITLE:**

J. C. Branner, Roderic Crandall and H. E. Williams: Mappa de parte dos Estados da Bahia, Pernambuco e Piauhy e dos Estados de Sergipe e Alagoas.

PUBLISHED BY:

Inspeçtoria de Obras Contra as Seccas, Ministerio da Viação e Obras Publicas, Rio de Janeiro, 1908.

LOCATION OF AREA COVERED:

Part of the State of Bahia lying south of the Rio São Francisco east of 43° W. and north of 12° 30' S.

SCALE: 1 : 2,000,000.

NUMBER OF FORMATIONS MAPPED: 6.

REFERENCE:

Branner, p. 239: "This map is not accompanied by any text. . . . It was originally prepared for the Serviço Geologico e Mineralogico do Brazil, but it was only issued as stated above."

63a**TITLE:**

[Geological map of the southeastern part of the State of Matto Grosso, Brazil.]

PUBLISHED IN:

M. A. R. Lisboa: Oeste de São Paulo, sul de Matto Grosso: Geologia, industria mineral, clima, vegetação, solo agricolo, industria pastoral, Estrada de Ferro Noroeste do Brasil, Comissão E. Schnoor, Rio de Janeiro, 1909.

SCALE: 1 : 2,000,000.

NUMBER OF FORMATIONS MAPPED: 10.

REFERENCE:

Suess-de Margerie, Vol. 3, p. 1312, footnote 1. Branner, p. 262: "Most of the geology is the original work of Dr. Lisboa himself; it is a contribution of great value to the geology of Brazil."

67a

TITLE:

Geological and topographical map of the Cerro Rico de Potosí and surroundings, Bolivia, S. A., from geological reconnaissances by Arthur F. Wendt and triangulations by Frederick A. Canfield.

PUBLISHED IN:

Trans. Amer. Inst. Mining Eng., Vol. 19, 1891, p. 106.

REFERENCE:

AGS list, Bolivia, 1891. Possibly the original version of 67.

86a

TITLE:

[Geological map of Minas Geraes, Brazil?]

PUBLISHED IN:

K. F. van Delden Laërne: *Brazilië en Java: Verslag over de koffiecultuur in Amerika, Asië en Afrika, Bijdr. tot de Taal-, Land-, en Volkenkunde van Nederl.-Indië*, Ser. 4, Vol. 9, 1885, map on Pl. 1.

REFERENCE:

Suess-de Margerie, Vol. 2, p. 225, footnote 3.

86b

TITLE:

Carte géologique d'une partie de la province de Minas Geraes au Brésil.

PUBLISHED IN:

P. Claussen: Notes géologiques sur la province de Minas Geraes au Brésil, *Bull. Acad. Royale de Bruxelles*, Vol. 8, No. 5, 1841.

REFERENCE:

Marcou, No. 846, p. 153.

88c

TITLE:

[Geological map of part of the city of Rio de Janeiro and the region west of it.]

PUBLISHED IN:

Alberto Betim Paes Leme: Os gneisses do Rio de Janeiro, Rio de Janeiro, 1912.

LOCATION OF AREA COVERED:

Area of 175 sq. kms. in State of Rio de Janeiro, including part of the city of Rio de Janeiro and the region 18 kms. to the west of it.

SCALE: 1 : 50,000.

NUMBER OF FORMATIONS MAPPED: 4.

REFERENCE:

Branner, p. 301.

88a

TITLE:

[Geological map of the Atacama Desert?]

PUBLISHED IN:

— Villanueva: Carte géologique de l'Atacama, *Anal. Univ. de Chile*, 1878.

REFERENCE:

Suess-de Margerie, Vol. 1, p. 693, footnote 1.

94a

TITLE:

Carte des terrains métallifères du Chili, d'après Gay et Domeyko.

PUBLISHED IN:

Louis Simonin: La vie souterraine, ou les mines et les mineurs, Paris, 1867, map 12, p. 424.

REFERENCE:

Marcou, No. 866, p. 157.

113a

TITLE:

Plano geológico de la región minera del "Rafaelita," Departamento de San Rafael, Provincia de Mendoza, República Argentina.

PUBLISHED IN:

R. Hauthal: Notas sobre algunas observaciones geológicas en la Provincia de Mendoza: I, La región del Rafaelita, *Rev. Museo de la Plata*, Vol. 7, 1896, pp. 69-96, map on p. 88.

SCALE: 1 : 25,000.

REFERENCE:

AGS list, Argentina, 1896; Suess-de Margerie, Vol. 1, p. 692, footnote 1 continued from p. 691.

114a

TITLE:

Geologische Kartenskizze der Umgebung von Puente del Inca, [Aconcagua]. Topographie meist nach Fitz Gerald und Riso Patrón.

PUBLISHED IN:

Neues Jahrbuch für Mineralog., Geol., und Paläontologie, Suppl. Vol. 24, 1907, map on Pl. 45.

SCALE: 1 : 250,000.

REFERENCE:

AGS list, Chile, 1907.

116a .

TITLE:

Carte géognostique d'une partie de la République Argentine entre les 65°-73° de longitude et 25°-34° de latitude.

PUBLISHED IN:

Hermann Burmeister: Description physique de la République Argentine d'après des observations personnelles et étrangères, Vol. 2, Paris, 1876, Book 4 (Tableau géognostique de la République Argentine), p. 151.

REFERENCE:

Marcou, No. 856, p. 155.

117a

TITLE:

[A geological map of a part of the Argentine Republic, by A. Stelzner.]

PUBLISHED IN:

Bol. Acad. Nacl. de Ciencias Exactas Existentes en la Universidad, Vol. 1, Buenos Aires, 1875.

REFERENCE:

Marcou, No. 855, p. 154: "Unseen; published by Dr. Burmeister."

119a

TITLE:

Los lavaderos y criaderos auríferos.

PUBLISHED IN:

G. Avé-Lallemant: Notas sobre los lavaderos y criaderos auríferos de los Cerritos Blancos en la Sierra de San Luis, *Anales Soc. Científica Argentina*, Vol. 9, Part 5, p. 208, Buenos Aires, 1880.

REFERENCE:

Marcou, No. 858, p. 155: "Black etching; the text says it is colored, *los lavaderos = color de carmín; los cúmulos de traquita = color amarillo.*"

123a

TITLE:

O. A. Derby: [Geological sketch-map of Brazil.]

PUBLISHED IN:

J. E. Wappaeus: *A geographia physica do Brazil* (Edição condensada), Rio de Janeiro, 1884, Chapter V (by O. A. Derby), pp. 44-59.

SCALE: About 1 : 90,000,000.

NUMBER OF FORMATIONS MAPPED: 6.

REFERENCE:

Branner, p. 201: "The text accompanying this map is based partly on Derby's personal knowledge, but no references are made to the other sources of information used in the preparation of the map. No attempt is made to show these [geological] subdivisions over more than about half of the area of Brazil."

123b

TITLE:

[Geological map of Brazil.]

PUBLISHED IN:

Theodoro Sampaio: *Atlas dos Estados Unidos do Brazil, Bahia*, 1911.

SCALE: 1 : 40,000,000.

NUMBER OF FORMATIONS MAPPED: 6.

REFERENCE:

Branner, p. 202: "In spite of the very small scale, it is among the best geologic maps of that country."

123c**TITLE:**

[Geological map of Brazil.]

PUBLISHED IN:

Domicio da Gama: Atlas universal de geographia physica e politica (Nova edição correcta), Rio de Janeiro, no date, map on Pl. 32.

REFERENCE:

Branner, p. 201: "This map has not been seen by the present writer."

124a**TITLE:**

Geologische Übersicht der Republik Uruguay, meist nach eigenen Beobachtungen von C. Guillemain.

PUBLISHED IN:

C. Guillemain: Beiträge zur Geologie Uruguays, *Neues Jahrbuch für Mineralog., Geol., und Paläontologie*, Suppl. Vol. 33, 1912, pp. 208-264, map on Pl. 8.

SCALE: [1 : 1,500,000].

REFERENCE:

AGS list, Uruguay, 1912; Suess-de Margerie, Vol. 3, p. 1312, footnote 1. Possibly the same map as 124.

126a

TITLE:

Golpe de vista geologico do Brazil e de algumas outras partes centraes da America do Sul, promptificado no Instituto Geologico Imperial Real Austriaco, fundado e dirigido pelo Professor Guilherme Haidinger, por Francisco Foetterle em Vienna em Avril 1854.

PUBLISHED WITH:

Franz Foetterle: Die geologische Uebersichtskarte des mitleren Theiles von Süd-Amerika, Vienna, 1854.

LOCATION OF AREA COVERED:

Entirely across the South American continent, from 5° N. to 35° S.

SCALE: 1 : 15,000,000.

NUMBER OF FORMATIONS MAPPED: 16.

REFERENCE:

Marcou, No. 847, p. 153: "This map, in Portuguese language, and published with a memoir in German to explain it, was constructed for Prof. Dr. von Martius, of München, for his great work on Brazil."

Branner, p. 200: "This map was made for Dr. K. Fr. Ph. von Martius, the Brazilian explorer, by Dr. Franz Foetterle, who was at the time an assistant on the K. K. Geologischen Reichsanstalt. I had the good fortune to see the original of this map at the rooms of the Geological Society of London in 1904. The author had made himself familiar with most of the data published up to that time on the geology of Brazil and of the adjacent regions. Altogether it is a remarkable map, evidently made by a discriminating and painstaking person."

127a

TITLE:

Plano del grupo volcánico de los volcanes del Descabezado (Chile).

PUBLISHED IN:

A. Pissis: Geografía física de la República de Chile, Paris, 1875, atlas, map on Pl. 19.

LOCATION OF AREA COVERED:

Central Chile in about 35° 30' S. and 71° W.

SCALE: 1 : 100,000.

REFERENCE:

Marcou, No. 870, p. 157: "Explanation of the atlas in 'Geografía física de la República de Chile,' p. 341."

128b

TITLE:

[Geological map of the Department of Las Heras, Province of Buenos Aires?]

PUBLISHED IN:

G. Avé-Lallemant: Observaciones sobre el mapa del Departamento de Las Heras, *Anal. Museo de la Plata: Secc. Geol. y Mineral.*, Vol. 1, 1892.

SCALE: 1 : 250,000.

REFERENCE:

Suess-de Margerie, Vol. 1, p. 692, footnote 1 from p. 691.

129a

TITLE:

Geologische Karte eines Theiles von Argentinien, entworfen von Santiago Roth, 1886.

PUBLISHED IN:

Santiago Roth: Beobachtungen über Entstehung und Alter der Pampasformation in Argentinien, *Zeitschr. Deutschen Geol. Gesell.*, Vol. 40, 1888, pp. 375-464, map on Pl. 22. Berlin.

SCALE: 1 : 3,000,000.

REFERENCE:

AGS list, Argentina, 1888; Suess-de Margerie, Vol. 2, 517, footnote 2.

130a

TITLE:

A. Pissis: Plano topográfico y geológico de la República de Chile levantado por orden del gobierno bajo la dirección de A. Pissis, [engraved in Paris, published in Santiago de Chile to 1873].

LOCATION OF AREA COVERED:

Central Chile (according to W. Sievers: Süd- und Mittelamerika, 3rd edition, Leipzig, 1914, p. 36).

SCALE: 1 : 250,000.

NUMBER OF SHEETS: 13.

REFERENCE:

Suess-de Margerie, Vol. 1, p. 688, footnote 2. Marcou, No. 868, p. 157: "No date nor place of publication, but 1873 may be considered as the exact date of issue, and Paris is the place where it was executed. The map is colored geologically, but a certain number of copies have been issued in black with limit of the rocks in dotted lines, and geological inscriptions with letters. It is the most important geological map and work published as yet on South America, and is very creditable, both to its author, M. A. Pissis, and the Chilian government." Other information in [August Petermann]: Die topographische und geologische Karte von Chile, *Petermanns Mitt.*, Vol. 21, 1875, pp. 41-42, with reduction of hypsometric features to 1 : 1,500,000.

130b

TITLE:

Plano que indica la situación del terreno Terciario Inferior i Cretaceo Superior entre los Puertos de Tome i Leuvu.

PUBLISHED IN:

Enrique Concha i Toro: Memoria sobre las formaciones Cuaternarias, Terciarias, i Cretacea (Superior) de Chile, relativas principalmente á la parte meridional de este país, *Anal. Univ. de Chile*, Vol. 32, Santiago de Chile, 1869, No. 5, p. 390.

REFERENCE:

Marcou, No. 867, p. 157: "Black etching."

135a

TITLE:

[Map showing distribution of Upper Jurassic sediments in the Andes between 32° and 39° S.]

PUBLISHED IN:

C. Burckhardt: Beiträge zur Kenntniss der Jura- und Kreideformation der Cordillere, *Palaeontographica*, Vol. 50, 1903, pp. 1-137, map on p. 1; also *Geol. Rundschau*, Vol. 2, 1911, Fig. 3 on p. 496.

REFERENCE:

Suess-de Margerie, Vol. 3, p. 1322, footnote 1, and map on p. 1317. The probable original of this map is listed above under 135.

143a

TITLE:

Auguste Bravard: Mapa geológico y topográfico de los alrededores de Bahía Blanca, Buenos Aires, 1857.

REFERENCE:

Compte rendu des Séances de la Soc. de Géogr. de Paris, 1884, p. 32. Marcou, No. 853, p. 154: "Unseen. Name of author given [in *Compte Rendu*] as Ravard."

147a**TITLE:**

Topographische und geologische Skizze des centralen und östlichen Teiles des Territorium Neuquén.

PUBLISHED IN:

Neues Jahrbuch, für Mineralog., Geol., und Paläontologie,
Suppl. Vol. 38, 1914-15, Pl. 7.

SCALE: [1 : 1,500,000].

REFERENCE:

AGS list, Argentina, 1914. Possibly related to 138.

149a**TITLE:**

[Geological sketch-map of the Lake Llanquihue region, southern Chile.]

PUBLISHED IN:

R. Pöhlmann: Petrographischer Anhang, pp. 338-344 of
Hans Steffen: Beiträge zur Topographie und Geologie der
andinen Region von Llanquihue, pp. 307-337, Festschrift
Ferdinand Freiherrn von Richthofen zum 60. Geburtstag
dargebracht, Berlin, 1893.

LOCATION OF AREA COVERED:

Lat. $41^{\circ} 0'$ to $41^{\circ} 50'$ S.

Long. $72^{\circ} 0'$ to $72^{\circ} 50'$ W.

REFERENCE:

Suess-de Margerie, Vol. 3, p. 1329, footnote 1. (American
Geographical Society has mutilated copy lacking the
maps.)

149b**TITLE:**

C. Juliet: [Geological sketch-map of the southern part of
the Province of Llanquihue, Chile.]

PUBLISHED IN:

Memoria del Ministerio de Marina, Santiago de Chile, 1871.

REFERENCE:

R. Pöhlmann, work cited under 149a, p. 338.

154a**TITLE:**

[Geological map of southeastern part of Chubut Territory, Argentina?]

PUBLISHED IN:

R. Stappenbeck and F. Reichert: Informe preliminar relativo á la parte sudeste del Territorio de Chubut, Buenos Aires, 1909.

SCALE: 1 : 500,000.

REFERENCE:

Suess-de Margerie, Vol. 3, p. 1330, footnote 1.

156a**TITLE:**

[Geological map of southern Patagonia?]

PUBLISHED IN:

Alcides Mercerat: Coupes géologiques de la Patagonie Australe, *Anal. Museo Nac. de Buenos Aires*, Vol. 5, 1897, pp. 309-329.

SCALE: 1 : 1,000,000.

REFERENCE:

Suess-de Margerie, Vol. 2, p. 514, footnote 1; A. Mercerat in *Bol. Inst. Geogr. Argentino*, Vol. 17, 1896, p. 392.

157a**TITLE:**

R. Hauthal: [Geological map of region included between Lago Argentino and Seno de la Ultima Esperanza, southern Patagonia.]

PUBLISHED IN:

O. Wilckens: Erläuterungen zu R. Hauthals geologische Skizze des Gebietes zwischen dem Lago Argentino und dem Seno de la Ultima Esperanza, Südpatagonien, *Berichte Naturforsch. Gesell. Freiburg i. B.*, Vol. 15, 1905, pp. 75-96, map on Pl. 1.

REFERENCE:

Suess-de Margerie, Vol. 3, p. 1334, footnote 2. A copy of this map is listed above under 156.

AUTHOR INDEX

AUTHOR INDEX

Reference is to entries. The numbers accompanied by letters refer to entries in the Appendix (Maps Not Seen)

- | | |
|---|---|
| Anderson, C. W., 8, 21 | Ducfias, E. I., 48 |
| Anonymous, 29a, 32a, 114a, 147a | Evans, J. W., 68 |
| Avé-Lallemant, G., 104, 105, 119a, 128a | Felsch, Johannes, 158, 159 |
| Barnabé, J. F., 88, 92 | Foetterle, Franz, 167, 126a |
| Bartholomew, J. G., 170 | Forbes, David, 84 |
| Baso, J. H., 53 | Fuchs, F. G., 64 |
| Beder, Roberto, 103 | Gama, da, <i>see</i> Da Gama |
| Bendrat, T. A., 5 | Gay,—, 94a |
| Berghaus, Hermann, 93, 164, 170 | Gerth, Enrique, 119 |
| Bodenbender, Guillermo, 98, 101, 102, 118 | Groeber, Pablo, 132, 133 |
| Bonarelli, Guido, 74, 76, 81, 155, 161 | Guillemain, C., 124, 124a |
| Bowman, Isalah, 65 | Halle, T. G., 157 |
| Brackebusch, Luis, 79, 93, 116 | Harder, E. C., 73 |
| Branner, J. C., 27, 28, 38, 41, 46, 52, 59, 60, 63, 71, 100, 126, 52a | Harrison, J. B., 6, 8, 10, 12, 13, 21 |
| Bravard, Auguste, 143a | Hartt, C. F., 25 |
| Brown, C. Barrington, 21, 51, 23a | Hauthal, Rudolf, 139, 156, 113a, 157a |
| Brüggen, J., 70 | Hermitte, E. M., 163 |
| Burckhardt, Carl, 127, 135, 135a | Hettner, Alfred, 14, 17, 100, 106 |
| Burmeister, H., 111, 116a | Hodges, A. D., Jr., 53 |
| Canfield, F. A., 67, 67a | Hohenkerk, L. S., 21 |
| Chamberlin, R. T., 73 | Homem de Mello, Barão, 122 |
| Clarke, J. M., 82 | Homem de Mello, Francisco, 122 |
| Claussen, P., 86b | Jahn, Alfred, 22 |
| Codazzi, Agustín, 39 | Jenkins, O. P., 36 |
| Concha i Toro,—, 131, 130b | Jochamowitz, Alberto, 57 |
| Cortés, A. Orrego, 66 | Juliet, C., 149b |
| Courty, Georges, 77 | Karsten, Hermann, 33, 2a, 33a, 33b |
| Crandall, Roderic, 44, 52a | Katzer, Friedrich, 47 |
| Crevaux, J., 34 | Kedel, Juan, 87, 136 |
| Da Gama, Domicio, 123c | Kühn, Franz, 107 |
| Degenhardt, Carl, 9 | Laërne, Delden, <i>see</i> Delden Laërne |
| Delden Laërne, K. F. van, 86a | Lallemant, G. Avé,—, <i>see</i> Avé-Lallemant, G. |
| Derby, O. A., 35, 78, 123, 123a | Leme, A. B. Paes, 86c |
| Deustua, R. A., 40 | León, J. M. Jállez, 50 |
| Domeyko, Ignace, 93, 94, 95, 120, 130, 94a | Lisboa, M. A. R., 56, 63a |
| | Lisson, C. I., 72, 40a |
| | Marcou, Jules, 170 |

- Marsters, V. F., 29
 Martin, Karl, 15, 16, 1a
 Mello, Homem de, *see* Homem de Mello
 Mena, Juan, 125
 Mercerat, Alcides, 156a
 Middelberg, E., 19
 Moussy, V. M. de., 150, 168
 Nágera, J. J., 128, 155
 Nordenskjöld, Otto, 160
 Olcott, E. E., 53
 Oliveira, E. P. de, 85
 Olmos, Leonardo, 80
 Orbigny, Alcide d', 75, 83, 97, 149, 165
 Ospina, Julio, 24
 Pastore, Franco, 112
 Penck, Walther, 91
 Perkins, H. I., 10, 21
 Plais, A., 69, 86, 147, 127a, 130a
 Pöhlmann, R., 149a
 Quensel, P. D., 162
 Raimondi, A., 58
 Randolph, J. C., F., 18
 Reclus, Elisée, 30, 166
 Reichert, F., 154a
 Rimann, Eberhard, 96
 Rivero, M. de, 54
 Roth, Santiago, 129a
 Rovereto, G., 134, 144
 Sampaio, Theodoro, 123b
 Sawkins, J. G., 21, 23, 23a
 Scheibe, R., 11
 Schickendantz, Federico, 89
 Schomburgk, R. H., 21
 Sievers, Wilhelm, 1, 3, 4, 7, 55, 114, 169
 Simonin, Louis, 94a
 Small, H. L., 37, 45
 Sociedade Nacional de Agricultura do
 Brasil, 121
 Soper, R. H., 42, 43, 62
 Stappenbeck, Richard (or Ricardo) 96,
 99, 108, 109, 113, 129, 152, 153, 154a
 Steffen, Hans, 148, 154
 Steinmann, G., 93, 164
 Stelzner, A., 93, 117, 117a
 Suess, Eduard, 131, 156
 Umlauff, A. F., 61
 Vélain, Charles, 34
 Vergara y Velasco, F. J., 20
 Villanueva, —, 88a
 Wall, G. P., 2
 Waring, G. A., 49
 Wehrli, Leo, 140
 Wendt, A. F., 67, 67a
 White, I. C., 115
 Wichmann, Richard (or Ricardo), 137,
 143, 146
 Williams, H. E., 44, 52a
 Willis, Bailey, 151
 Windhausen, A., 138
 Witte, Lutz, 141, 142
 Wolf, Teodoro, 26, 31, 32
 Zapalowicz, Hugo, 145
 Zuber, Rodolfo, 110

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